# Exhibit D

### Case 1:17-cv-02698-PAE-JLC Document 49-6 Filed 03/10/17 Page 2 of 81

David William Feigal, Jr., M.D., M.P.H.

Page 1

UNITED STATES DISTRICT COURT FOR THE MIDDLE DISTRICT OF TENNESSEE NASHVILLE DIVISION

KATRINA DAWN COPLEY,

COPLEY, : CIVIL ACTION Plaintiff, : NO. 3:14-cv-00406

vs.

BAYER HEALTHCARE PHARMACEUTICALS, INC., BAYER:

PHARMA AG, and BAYER OY, Defendants. :

ADDITIONAL CAPTIONS LISTED ON NEXT PAGE

Wednesday, May 4, 2016

Videotaped deposition of DAVID WILLIAM FEIGAL, JR., M.D., M.P.H., held at COVINGTON & BURLING, L.L.P., 2029 Century Park East, Suite 3100, Los Angeles, California, commencing at approximately 9:06 a.m., before Rosemary Locklear, a Registered Professional Reporter, Certified Realtime Reporter and California CSR (#13969).

GOLKOW TECHNOLOGIES, INC. 877.370.3377 ph | 971.591.5672 Fax deps@golkow.com

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Page 2
                                                                                                                       Page 4
 1
             UNITED STATES DISTRICT COURT
                                                                                 UNITED STATES DISTRICT COURT
           FOR THE NORTHERN DISTRICT OF ALABAMA
                                                                                 WESTERN DISTRICT OF VIRGINIA
 2
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 4
       SHAMEKA M. BRIDGES, AND : CASE NO.
                                                                          EMILY C. KELLINGTON
                                                                                                    : CASE NO.
                            : 2:14-cv-00036-WMA
 5
                                                                    5
       PETERSON BRIDGES,
                                                                                 Plaintiff, : 5:14-cv-00002-MFU
             Plaintiffs, :
                                                                    6
 6
           VS.
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                                                                    7
                                                                          BAYER HEALTHCARE
       BAYER HEALTHCARE
                                                                          PHARMACEUTICALS INC.,
       PHARMACEUTICALS, INC., BAYER:
 8
                                                                                 Defendant. :
       PHARMA AG, and BAYER OY, :
                                                                    9
             Defendants. :
10
                                                                   10
                                                                          APPEARANCES:
                                                                   11
11
                                                                   12
                                                                              JONES WARD, P.L.C.
BY: LAWRENCE L. JONES, II, ESQUIRE
12
                                                                   13
             UNITED STATES DISTRICT COURT
             NORTHERN DISTRICT OF INDIANA
13
                                                                   14
                                                                              larry@jonesward.com
                HAMMOND DIVISION
                                                                              BY: CHRISTINA NATALE, ESQUIRE
                                                                              christina@jonesward.com
Marion E. Taylor Building
312 South Fourth Street, 6th Floor
14
                                                                   15
15
                                                                   16
16
       KATHLEEN CHEEK and BILLY : CASE NO.
                                                                              Louisville, Kentucky 40202
                     : 2:15-cv-00020
                                                                              (502) 882-6000
17
                                                                   17
             Plaintiffs, :
                                                                              Appearing on behalf of the Plaintiffs
18
                                                                   18
           VS.
                                                                   19
19
                                                                              COVINGTON & BURLING, L.L.P.
       BAYER HEALTHCARE
                                                                              BY: PAUL W. SCHMIDT, ESQUIRE
20
       PHARMACEUTICALS, INC., et :
                                                                              pschmidt@cov.com
                                                                   21
                                                                              One CityCenter
                                                                              850 Tenth Street, NW
Washington, DC 20001-4956
(202) 662-6000
21
             Defendants. :
                                                                   22
22
23
                                                                   23
                                                                              Appearing on behalf of the Defendants
25
                                                                   25
                                                   Page 3
                                                                                                                      Page 5
             UNITED STATES DISTRICT COURT
 1
                                                                               ALSO PRESENT:
                                                                      1
           FOR THE WESTERN DISTRICT OF MISSOURI
                 WESTERN DIVISION
 2
 3
                                                                      3
                                                                                     RYAN WONG, Video Operator
                                                                      4
 5
       SARAH D. HOOVER
                            : CIVIL ACTION NO.
                                                                      5
             Plaintiff, : 3:14-cv-05090-SRB
                                                                      6
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       BAYER HEALTHCARE : PHARMACEUTICALS INC., BAYER :
                                                                      8
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       PHARMA AG, and BAYER OY, :
              Defendants. :
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                                                                    13
             UNITED STATES DISTRICT COURT
           FOR THE NORTHERN DISTRICT OF ALABAMA
13
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                                                                    16
       SHENIKA J. HOUSTON,
16
                              : CASE NO.
                                                                    17
              Plaintiff, : 2:14-cv-00035-WMA
17
                                                                    18
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18
       BAYER HEALTHCARE
                                                                    20
19
       PHARMACEUTICALS INC., et al.,:
                                                                    21
              Defendants. :
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2 (Pages 2 to 5)

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Page 6
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 1
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                                                                                  VIDEO OPERATOR: We are now on the record.
                       INDEX
 2
                                                                       2
                                                                                  My name is Ryan Wong. I am a videographer for
 3
        WITNESS
                                              PAGE
                                                                       3
                                                                             Golkow Technologies. Today's date is April 4th, 2016,
 4
 5
                                                                       4
                                                                             and the time is 9:06 a.m.
        DAVID WILLIAM FEIGAL, JR., M.D., M.P.H.
  6
                                                                       5
                                                                                  MR. JONES: May the 4th.
 7
                 By Mr. Jones
                                                                       6
                                                                                  MS. NATALE: May the 4th.
 8
                                                                       7
                                                                                  VIDEO OPERATOR: Oh, May the 4th. I'm sorry.
 9
10
                                                                       8
                                                                                  This video deposition is being held in Los
11
                      EXHIBIT INDEX
                                                                       9
                                                                             Angeles, California, in the matter of Katrina Copley
        NUMBER
12
                                             MARKED
                                                                      10
                                                                             versus Bayer HealthCare and others, for the United
13
14
        Feigal-1
                      10-page document dated 4/22/16
                                                                      11
                                                                             States District Court, Middle District of Tennessee.
                   entitled "Notice of Video
                                                                      12
                                                                                  The deponent is Dr. David Feigal.
15
                   Deposition of David Feigal,
                                                                      13
                                                                                  Counsel, please identify yourselves for the
                   MD, MPH"
16
                                                                      14
                                                                             record.
         Feigal-2
                      1-page document dated 4/4/13
                                                        12
                                                                      15
                                                                                  MR. JONES: Larry Jones for the plaintiffs.
17
                   entitled "Invoice," plus
                                                                     16
                                                                                  MS. NATALE: Christina Natale for the
                   attachments
18
                                                                      17
                                                                             plaintiffs.
         Feigal-3
                      2-page letter dated 1/14/13 to
                                                      14
                                                                      18
                                                                                  MR. SCHMIDT: Paul Schmidt for Bayer.
19
                   Earle Martin from Hunter K.
                                                                      19
                                                                                  And we cross-noticed this in a few other cases
                   Ahern, plus attachment
20
                                                                      2.0
                                                                             so if you don't have the caption, I can get them to you
         Feigal-4
                      1-page letter dated 10/22/14
                                                      25
                                                                      21
                                                                             at a break.
21
                   to Hunter K. Ahern, Esq., from
                                                                      22
                                                                                  VIDEO OPERATOR: The court reporter is Mary
                   Ellen C. Teplitzky
22
                                                                      23
                                                                             (sic) Locklear, and will now swear in the witness.
23
                                                                      24
                                                                                  DAVID WILLIAM FEIGAL, JR., M.D., M.P.H., having
2.4
                                                                      25
                                                                             been duly sworn, was examined and testified as follows:
25
                                                     Page 7
                                                                                                                           Page 9
 1
                 EXHIBIT INDEX (Continued)
                                                                       1
                                                                                            EXAMINATION
 2
       NUMBER
                                           MARKED
                                                                       2
                                                                              BY MR. JONES:
 3
                                                                       3
                                                                                    Good morning, sir. My name is Larry Jones. We
 4
        Feigal-5
                     1-page document entitled
                                                   46
                  "David Feigal, M.D., M.P.H.,
                                                                       4
                                                                              met just a couple of moments ago. I represent the
 5
                 Supplemental Materials
                                                                       5
                                                                              plaintiffs in this case.
                 Reviewed"
 6
                                                                       6
                                                                                   And my phone is dinging, and that's probably a
        Feigal-6
                    2-page E-mail dated 10/23/02
                                                    147
                                                                       7
                                                                              good lesson to everyone to turn their phones off.
 7
                 to Mirja Heikkinen from Pirjo
                                                                       8
                                                                                   Can you please state your full name for the
                  Sallinen, MIR PSEU 00546368 -
 8
                 MIR PSEU 00546369
                                                                       9
                                                                              record.
                    5-page document dated 6/2/99
        Feigal-7
                                                    264
                                                                      10
                                                                              Α.
                                                                                    Yes. My name is David William Feigal, Junior.
                 entitled "Mirena FC Minutes of
10
                 the Projectteam Meeting
                                                                      11
                                                                                    Okay. And, Doctor, you're a Medical Doctor;
                 (Leiras/Berlex),"
                                                                      12
                                                                              correct?
                 MIR JR 00186491
11
                                                                      13
                                                                              A.
                                                                                    That's correct.
                 MIR JR 00186495
12
                                                                      14
                                                                                    And, Dr. Feigal, where do you currently reside?
                                                                              O.
        Feigal-8
                    60-page document dated 11/07
                                                     272
                                                                      15
                                                                                    I reside in Santa Rosa Valley, California.
13
                 entitled "FDA Science and
                 Mission at Risk'
                                                                      16
                                                                                    Okay. And do you intend to appear live to
14
                                                                      17
                                                                              testify at the trial in these cases?
15
                                                                      18
                                                                                    If asked, yes, I would.
        (Exhibits retained by the court reporter and attached to
16
       transcript.)
                                                                      19
                                                                                   (Exhibit Feigal-1 was marked for
17
                                                                      20
                                                                              identification.)
18
                                                                      21
19
                                                                              BY MR. JONES:
20
                                                                      22
                                                                                    Dr. Feigal, I'm going to hand you a document
21
                                                                      23
                                                                              that we're marking as Plaintiff's Exhibit 1 --
22
23
                                                                      24
                                                                              A.
24
                                                                      25
                                                                                    -- which I will represent to you is the
                                                                              Q.
25
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3 (Pages 6 to 9)

	Page 10		Page 12
1	Deposition Notice served in this case.	1	notes is you responded to Request Number 23 with a
2	Have you seen this document before?	2	copy of several invoices; is that correct?
3	A. Yes, I have.	3	A. Yes. Those are actually all of the invoices
4	Q. Okay. And the Deposition Notice asks for	4	over time that relate to Mirena, not just this case but
5	certain documents	5	other cases before then.
6	MR. JONES: I don't have an extra copy.	6	Q. When you say "other cases before then," what are
7	MS. NATALE: Do you need one?	7	you talking about?
8	BY MR. JONES:	8	A. I was originally retained to prepare a report on
9	Q. How many document requests are there on there?	9	Mirena and issues relating to uterine perforation, and
10	I don't have a copy.	10	so most of the invoices actually reflect that. The
11	A. Oh. 23.	11	work the invoices for IIH began in February of this
12	Q. Okay. And did you have you seen this before?	12	year. There's two copies there, by the way.
13	A. Yes.	13	Q. Oh, okay. Great.
14	Q. And did you engage in efforts to try to locate	14	Is there two copies of everything?
15 16	the documents listed here in the Deposition Notice?  A. Yes, I did.	15 16	A. Except for the CV.
17	Q. And tell me what kind of efforts you engaged in	17	Q. Okay.
18	to locate the documents listed in the Deposition Notice.	18	MR. JONES: I'm going to mark a copy of these invoices as Deposition Exhibit Number 2.
19	A. I went down through the list to see which of	19	(Exhibit Feigal-2 was marked for
20	these documents I had. Some of them aren't things that	20	identification.)
21	I have or ever had, some of them and I had	21	BY MR. JONES:
22	discussions with Mr. Schmidt about which of these I was	22	Q. And is Exhibit Number 2, is that a true and
23	to produce and so then I went through my files and	23	accurate copy of what you just described regarding your
24	pulled the documents that I could and I've brought them	24	invoices?
25	with me today.	25	A. Yes, it is.
		1	
1	Page 11 Q. Okay. And do you have those documents with you	1	Page 13  Q. Okay. And then the next item that you've
2	Q. Okay. And do you have those documents with you here today?	2	Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so
2	<ul><li>Q. Okay. And do you have those documents with you here today?</li><li>A. Yes, I do.</li></ul>	2 3	Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number
2 3 4	<ul><li>Q. Okay. And do you have those documents with you here today?</li><li>A. Yes, I do.</li><li>Q. And can I have them?</li></ul>	2 3 4	Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?
2 3 4 5	<ul><li>Q. Okay. And do you have those documents with you here today?</li><li>A. Yes, I do.</li><li>Q. And can I have them?</li><li>A. Sure.</li></ul>	2 3 4 5	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no</li> </ul>
2 3 4	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> </ul>	2 3 4	Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?  A. Actually, it's probably 22. Because there is no 25.
2 3 4 5 6	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> </ul>	2 3 4 5 6	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no</li> </ul>
2 3 4 5 6 7	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> </ul>	2 3 4 5 6 7	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says</li> </ul>
2 3 4 5 6 7 8	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the</li> </ul>	2 3 4 5 6 7 8	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the documents, each of them have a yellow sticky on them</li> </ul>	2 3 4 5 6 7 8	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> <li>A. Yeah.</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the documents, each of them have a yellow sticky on them which indicates which number of the Document Request it</li> </ul>	2 3 4 5 6 7 8 9	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> <li>A. Yeah.</li> <li>Q on the sticky, but there's it doesn't this doesn't go up to 25.</li> <li>A. It's 22.</li> </ul>
2 3 4 5 6 7 8 9 10	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the documents, each of them have a yellow sticky on them which indicates which number of the Document Request it is.</li> <li>Q. Okay.</li> <li>A. And then I've also brought for you an updated</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> <li>A. Yeah.</li> <li>Q on the sticky, but there's it doesn't this doesn't go up to 25.</li> <li>A. It's 22.</li> <li>Q. Okay.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the documents, each of them have a yellow sticky on them which indicates which number of the Document Request it is.</li> <li>Q. Okay.</li> <li>A. And then I've also brought for you an updated copy of my prior testimony since.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> <li>A. Yeah.</li> <li>Q on the sticky, but there's it doesn't this doesn't go up to 25.</li> <li>A. It's 22.</li> <li>Q. Okay.</li> <li>A. Yeah. And yeah.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the documents, each of them have a yellow sticky on them which indicates which number of the Document Request it is.</li> <li>Q. Okay.</li> <li>A. And then I've also brought for you an updated copy of my prior testimony since.</li> <li>Q. Okay.</li> <li>Q. Okay.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> <li>A. Yeah.</li> <li>Q on the sticky, but there's it doesn't this doesn't go up to 25.</li> <li>A. It's 22.</li> <li>Q. Okay.</li> <li>A. Yeah. And yeah.</li> <li>Q. And that Item 22 says, all consulting contracts</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the documents, each of them have a yellow sticky on them which indicates which number of the Document Request it is.</li> <li>Q. Okay.</li> <li>A. And then I've also brought for you an updated copy of my prior testimony since.</li> <li>Q. Okay.</li> <li>A. Since we've submitted that initially, I've done</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> <li>A. Yeah.</li> <li>Q on the sticky, but there's it doesn't this doesn't go up to 25.</li> <li>A. It's 22.</li> <li>Q. Okay.</li> <li>A. Yeah. And yeah.</li> <li>Q. And that Item 22 says, all consulting contracts or retention letters concerning the witness's</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.  This is just a copy of my report.</li> <li>Q. Okay.</li> <li>A. But what I'm providing for you are the documents, each of them have a yellow sticky on them which indicates which number of the Document Request it is.</li> <li>Q. Okay.</li> <li>A. And then I've also brought for you an updated copy of my prior testimony since.</li> <li>Q. Okay.</li> <li>A. Since we've submitted that initially, I've done two depositions, and they're reflected on that new list.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?  A. Actually, it's probably 22. Because there is no 25.  Q. Yeah, that's what I was going to say. It says "25" on it  A. Yeah.  Q on the sticky, but there's it doesn't this doesn't go up to 25.  A. It's 22.  Q. Okay.  A. Yeah. And yeah.  Q. And that Item 22 says, all consulting contracts or retention letters concerning the witness's involvement in the Mirena litigations.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. Okay. And do you have those documents with you here today?</li> <li>A. Yes, I do.</li> <li>Q. And can I have them?</li> <li>A. Sure.</li></ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. Okay. And then the next item that you've provided is has a sticky note that says "25" on it so that's you're responding to Document Request Number 25; is that correct?</li> <li>A. Actually, it's probably 22. Because there is no 25.</li> <li>Q. Yeah, that's what I was going to say. It says "25" on it</li> <li>A. Yeah.</li> <li>Q on the sticky, but there's it doesn't this doesn't go up to 25.</li> <li>A. It's 22.</li> <li>Q. Okay.</li> <li>A. Yeah. And yeah.</li> <li>Q. And that Item 22 says, all consulting contracts or retention letters concerning the witness's involvement in the Mirena litigations.</li> <li>A. Yes, that's correct.</li> </ul>
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	Page 14		Page 16
1	(Exhibit Feigal-3 was marked for	1	9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
2	identification.)	2	23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36,
3	MR. JONES: Paul, did you want this back?	3	plus you say probably another 10 or 15 before this
4	MR. SCHMIDT: Yes.	4	period; is that correct?
5	BY MR. JONES:	5	A. Yes; going all the way back to 1995. Yes.
6	Q. And then there is a one copy of an updated	6	Q. Okay. So 46 to 51 depositions.
7	prior testimony list?	7	And you said going all the way back to 1995, but
8	A. Yes.	8	I understood you a second ago to say that after you
9	Q. Is that correct?	9	testified for the Government as a fact witness in '95,
10	A. That's correct. Yeah. I already gave a copy to	10	you hadn't testified at a deposition again until you
11	Mr. Schmidt.	11	started your consulting work; is that correct?
12	Q. Now, can you I've received a previous list of	12	A. That's correct. The next deposition that I had
13	your testimony.	13	was probably approximately in 2005.
14	Can you help me understand, was this merely your	14	Q. Okay. So since 2005, would it be fair to say
15	attempt to update to date or were there additions within	15	that you've given between 46 and 51 depositions?
16	the body of the other?	16	A. Yes.
17	A. No, there's no additions within the body. There	17	Q. And that was as a paid litigation consultant?
18	may have been one that dropped off because it's now	18	A. Yes.
19	before the four-year time period, but there's two	19	Q. And then let's look at you have a list of
20	additions on the last page.	20	trial or arbitration testimony in the last four years.
21	So I think there's one deletion, the first line	21	We have 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
22	on the old report has been deleted because now it's	22	15, 16, 17, 18, 19, 20. 20.
23	longer than four years ago, and then there's two	23	So 20 instances of trial or arbitration
24	additions for two depositions that are done recently.	24	testimony in the last four years?
25	Q. And the list of your prior testimony is three,	25	A. That's correct.
	Page 15		Page 17
1	_	1	
1 2	Page 15 four, five, six pages for the last four years; is that correct?	1 2	Q. And how many did you say it would have been
	four, five, six pages for the last four years; is that		
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1	surveillance, and I was providing testimony about	1	A. Not that I recall. I think with these cases I
2	post-market surveillance, regulatory, and the	2	primarily interacted with the attorneys from Covington &
3	epidemiology that supported the labeling changes.	3	Burling.
4	Q. Did you give testimony in those Actos cases that	4	Q. Okay.
5	Takeda had adequately warned of the risk of bladder	5	MR. SCHMIDT: And, Larry, I apologize. We also
6	cancer in their product label?	6	had a supplemental reliance list, if you wanted to
7	A. Yes. Generally speaking, yes, that was the	7	review that at some point.
8	testimony that I offered.	8	MR. JONES: Yes. Of course. Thanks.
9	Q. And did you give testimony in the Actos cases	9	MR. SCHMIDT: A few copies.
10	that Takeda's interactions with the FDA were	10	BY MR. JONES:
11	appropriate?	11	Q. Sorry for the lack of questions. I'm just going
12	A. With respect to the safety surveillance, yes,	12	through
13	and the labeling updates and the submission of required	13	A. No. No. That's quite all right.
14	documents, yes, I did.	14	Q the documents that you gave me.
15	Q. And those are similar to the opinions that	15	A. That's quite all right.
16	you're giving in this case as well; correct?	16	Q. The document that has a sticky note on it, 22,
17	A. At a very high level. But the facts are you	17	it did say "25" but we figured out it was 22, this
18	know, the circumstances and the facts are very	18	appears to be a consulting agreement between your
19	different.	19	company, NDA Partners, L.L.C.?
20	Q. Sure. Okay. And you say that you were	20	Is that your company?
21	contacted to testify in the we'll call these the	21	A. Yes, that's correct.
22	Mirena MDL, when I refer to that, is it fair to assume	22	Q. Are you a partner in that company?
23	that those are the migration/perforation cases?	23	A. I am.
24	A. You can refer to them that way, yes.	24	Q. A full equity partner?
25	Q. Okay. Is that a fair differentiation? I'm	25	A. Yes. There's 11 of us, yes.
	D 10		
	Page 19		Page 21
1	trying to differentiate between these cases.	1	Page 21 Q. Okay.
1 2		1 2	
	trying to differentiate between these cases.		Q. Okay.
2	trying to differentiate between these cases.  I'd like to call those the MDL or the	2	Q. Okay. A. I'm one of 11.
2 3	trying to differentiate between these cases.  I'd like to call those the MDL or the migration/perforation cases and these the pseudotumor	2	<ul><li>Q. Okay.</li><li>A. I'm one of 11.</li><li>Q. Does your wife, does she work there?</li></ul>
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6 (Pages 18 to 21)

	Page 22		Page 24
1	have assigned David W. Feigal, M.D., M.P.H., to this	1	testimony; is that correct?
2	project.	2	A. You've read that correctly but, actually, I only
3	Who was the point of contact initially on this	3	charge 600, no matter what the work is, so whether it's
4	particular project? Was it Mr. Martin or was it you?	4	deposition testimony or whatever.
5	A. It was me.	5	I think some of my other partners in the group
6	Q. Okay.	6	have a differential rate. But I don't charge for travel
7	A. And then to get an agreement between the	7	or for depositions. So it's a flat 600 for my time, no
8	attorney's firm and our group and to set up the billing	8	matter what I'm doing.
9	arrangements, I turn that over to Mr. Martin and his	9	Q. Okay. The next sentence says, non-productive
10	staff.	10	travel time will be charged at \$300 per hour.
11	Q. Okay. And it says, this will confirm that Bayer	11	Did I read that correctly?
12	has authorized us to retain you as expert consultants in	12	A. Yes.
13	this matter at your customary fee of \$500 per hour.	13	Q. And do you charge non-productive travel time at
14	So that was your rate in 2013?	14	\$300 per hour?
15	A. That's correct.	15	A. I do not. Some of my partners do that.
16	MR. JONES: Okay. Let's mark this as Deposition	16	Q. Do you charge non-productive travel time at \$600
17	Exhibit 4 or 3? Four. Okay.	17	per hour?
18	BY MR. JONES:	18	A. No, I don't charge for my travel time, just
19	O. Is that a	19	out-of-pocket travel expenses.
20	MR. SCHMIDT: I'm sorry. What was 3? I thought	20	Q. And I think you clarified this for me but, as we
21	that was 3.	21	sit here today, your billable rate is \$600 per hour;
22	THE WITNESS: No. Three was the oh, I've	22	right?
23	already got it marked as 3. I've got both copies.	23	A. That's correct.
24	MR. SCHMIDT: You marked the same one twice as	24	Q. Okay.
25	two different numbers.	25	A. Whether it's deposition or report writing or
	Page 23		Page 25
1	MR. JONES: Oh, I did?	1	research, it's \$600 an hour.
2	Okay. So what do we have going on here?	2	Q. And how often does your company raise your rate?
3	THE WITNESS: Three and 4 are both the same.	3	A. That was the first time we did it after, I
4	MR. SCHMIDT: I think 3 and 4 are the same	4	think, nine years, and it's it was sort of across the
5	document.	5	board for multiple partners. We had had the same rate
6	MR. JONES: Oh. Oh, I gave you my copy. I'm	6	for about nine, ten years and we raised it.
7	sorry.	7	Q. And do you testify at or do you bill at \$600 per
8	THE WITNESS: Yeah.	8	hour for consulting and deposition or trial testimony?
9	MR. JONES: So that's not Exhibit 4. Let's	9	When you work on other matters currently, is your rate
10	strike that.	10	\$600 per hour?
11	Here's your sticker back.	11	A. For legal consulting, yes, it's the same for all
12	BY MR. JONES:	12	of my clients.
13	Q. And is that a true and accurate copy of the	13	MR. JONES: And then let's just go on and mark
14	retention letter, the initial retention letter, for your	14	that as Deposition Exhibit 4.
15	consulting arrangement with Shook Hardy Bacon and Bayer	15	(Exhibit Feigal-4 was marked for
16	back in January 2013?	16	identification.)
17	A. Yes, it is.	17	BY MR. JONES:
18	Q. Then we'll I'm looking at a letter that	18	Q. Dr. Feigal, did I mark a copy of these invoices
19	you've produced to Hunter Ahern, it's addressed to	19	yet or did you give me two copies?
20	Hunter Ahern, partner, Shook Hardy & Bacon, October	20	A. No. You did mark it. That was Exhibit 2.
21	22nd, 2014, from Ellen Teplitzky, T-E-P-L-I-T-Z-K-Y?	21	MS. NATALE: That's 2.
22	A. Yes.	22	MR. JONES: Okay. Let's go to Exhibit 2, then.
23	Q. Okay. And this appears to be advising Shook	23	MR. SCHMIDT: May I see Exhibit 4, please,
24	Hardy that your new rate is \$600 per hour for consulting	24	David?
	and \$700 per hour for deposition or expert witness	25	THE WITNESS: Sure.
25	and \$700 per flour for deposition of expert witness	1 23	THE WITNESS. Suic.

		1	
	Page 26		Page 28
1	BY MR. JONES:	1	A. I don't recall exactly.
2	Q. So you were first contacted to consult in this	2	Actually, I have one more thing which I've
3	case in February of 2016; correct?	3	brought you in response to your request, and it's my
4	A. Yes. It looks like that's when the work	4	working document. So you can see the documents that
5	started. You noticed the letter was dated in January.	5	have highlighting, and if you look in here, you'll see
6	So I was probably contacted in January, I suggested we	6	folders by the dates on which I received documents.
7	get a retainer letter in place, and then I started	7	Q. Okay.
8	reviewing documents in February of 2013.	8	A. So except for one there's one folder that's
9	Q. Right. I'm talking about in the	9	just labeled "IIH."
10	A. Oh.	10	Q. Okay.
11	Q PTC cases.	11	A. But you can see from probably the dates the
12	A. I'm sorry. Yes. That's February of this year,	12	documents were created or saved the rough time frame.
13	yes, 2016.	13	So this isn't the sum total of all the documents
14	Q. And there is no separate letter of consulting or	14	I've ever had for Mirena but it's the ones I've had
15	agreement for this case, is there?	15	since I began working on pseudotumor cerebri.
16	A. No, there is not.	16	Q. Okay. And is that thumb drive for us?
17	Q. And so let's go back.	17	A. Yes.
18	It looks like you've provided two invoices that	18	Q. Okay.
19	relate to this case.	19	A. Yeah, it's for you.
20	A. Yes.	20	Q. During February of 2016, were you provided with
21	Q. One is dated 3/14/2016, service date 2/29/2016.	21	plaintiffs' expert reports in this case?
22	That's just the service date is just the	22	A. I was, yes.
23	billed date; right? That's the last day of the month?	23	Q. Okay. And how many of those expert reports were
24	A. That's right.	24	you provided with?
25	Q. Okay. And then you go over, consultant, David	25	A. I think at that initial time I was provided Dr.
		1	
	Page 27		
1		1	
1 2	Feigal, description, for professional services rendered	1 2	Page 29  Ross, Dr. Etminan, never quite sure how to say Dr.  Frau
1 2 3			Ross, Dr. Etminan, never quite sure how to say Dr. Frau
2	Feigal, description, for professional services rendered February 1st, 2016, to February 29th, 2016; is that	2	Ross, Dr. Etminan, never quite sure how to say Dr. Frau Q. Fraunfelder.
2	Feigal, description, for professional services rendered February 1st, 2016, to February 29th, 2016; is that correct? A. Yes.	2 3	Ross, Dr. Etminan, never quite sure how to say Dr. Frau Q. Fraunfelder.
2 3 4	Feigal, description, for professional services rendered February 1st, 2016, to February 29th, 2016; is that correct? A. Yes.	2 3 4	Ross, Dr. Etminan, never quite sure how to say Dr. Frau Q. Fraunfelder. A Fraunfelder's deposition, and one other whose
2 3 4 5	Feigal, description, for professional services rendered February 1st, 2016, to February 29th, 2016; is that correct?  A. Yes.  Q. Okay. And it looks like you spent 8.5 hours	2 3 4 5	Ross, Dr. Etminan, never quite sure how to say Dr. Frau Q. Fraunfelder. A Fraunfelder's deposition, and one other whose name I can't remember.
2 3 4 5 6	Feigal, description, for professional services rendered February 1st, 2016, to February 29th, 2016; is that correct?  A. Yes.  Q. Okay. And it looks like you spent 8.5 hours working on this case in February of 2016; correct?	2 3 4 5 6	Ross, Dr. Etminan, never quite sure how to say Dr. Frau Q. Fraunfelder. A Fraunfelder's deposition, and one other whose name I can't remember. Q. And you said "deposition," but those were
2 3 4 5 6 7	Feigal, description, for professional services rendered February 1st, 2016, to February 29th, 2016; is that correct?  A. Yes.  Q. Okay. And it looks like you spent 8.5 hours working on this case in February of 2016; correct?  A. That's correct.	2 3 4 5 6 7	Ross, Dr. Etminan, never quite sure how to say Dr. Frau Q. Fraunfelder. A Fraunfelder's deposition, and one other whose name I can't remember. Q. And you said "deposition," but those were A. I mean they
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	Page 30		Page 32
1	on a report that would be filed. And when I do that,	1	background information on the initial approval of Mirena
2	I'm also willing to offer testimony, if requested, at a	2	had been previously written for other reports. So 50
3	deposition or trial.	3	hours was the time necessary to write the material
4	Q. Okay. And we have going to the last page,	4	specific to pseudotumor cerebri.
5	the next invoice, it's dated 4/26/2016, for professional	5	Q. And can you go to the portion of your report
6	services rendered March 1st, 2016, through March 31st,	6	that says "References Cited"?
7	2016.	7	A. Yes.
8	Did I read that correctly?	8	Q. Are you there?
9	A. Yes.	9	A. Yes.
10	Q. Okay. And 41.5 hours, for a total of \$24,900	10	Q. Okay. And looking at this, this has 82
11	for that month; is that correct?	11	references that were cited in your report; correct?
12	A. That's correct.	12	A. Yes, that's correct.
13	Q. Okay. And when you add that to the \$5,100 from	13	Q. Okay. And as part of this 50 hours, did you
14	the prior month, you are at exactly \$30,000; is that	14	review every one of these 80 references?
15	right? Is my math right?	15	A. Well, some of these are references to sections
16	A. It looks like that's correct.	16	that had been previously written, but if they are new
17	Q. What work did you do during your 41.5 hours	17	references about pseudotumor cerebri, yes, I did review
18	during the month of March 2016?	18	them.
19	A. Well, during March, I filed the report that we	19	Q. And did you review them cover to cover?
20	have today. And so the work would have involved writing	20	A. Not all of them. Some of them are documents
21	the report, reviewing the documents that were necessary	21	that only small parts of the documents are relevant to
22	to write that report, there were also conversations with	22	the reference in the reference in the text. Others
23 24	attorneys during this time about the report and about	23	are documents that establish different regulatory
25	some of my opinions.  Q. And what date did you submit your final report?	24 25	milestones such as, you know, typically, I'll reference approval documents and reviews. But these are all
23	Q. And what date did you submit your final report?	23	approval documents and reviews. But these are an
	Page 31		Page 33
1	A. The date is on Page 52 of the report. March	1	these are the reports among the total number of
2	24th.	2	documents that I had that I, you know, specifically
3	Q. And between the two invoices, it looks like you	3	referenced in my report.
4	spent exactly 50 hours.	4	Olyany And so those one the energithet year
_		4	Q. Okay. And so those are the ones that you
5	Well, does any of this 41.5 hours include time	5	specifically referenced in your report, those 82
6	spent after you submitted your report?	5 6	specifically referenced in your report, those 82 citations; correct?
6 7	spent after you submitted your report?  A. It may have, but I suspect most of that will be	5 6 7	specifically referenced in your report, those 82 citations; correct?  A. That's correct.
6 7 8	spent after you submitted your report?  A. It may have, but I suspect most of that will be in the April invoice, which hasn't been prepared yet.	5 6 7 8	specifically referenced in your report, those 82 citations; correct?  A. That's correct.  Q. Okay. And then I have a listing of David Feigal
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9 (Pages 30 to 33)

with all of them. I've reviewed some of them in more

25

25

section on my background is the same, much of the

	Page 34		Page 36
1	detail than others.	1	A. Yes, that's right.
2	Q. Okay. Well, it says "Materials Reviewed."	2	Q. Okay. And then "Deposition Testimony," you have
3	Did you review these 89 materials or not?	3	"Deposition of Juliane Schoendorf"; is that correct?
4	A. Yes.	4	A. That's correct.
5	Q. Okay. So that's 89 plus the 82 that you cite so	5	Q. Okay. And did you review that entire deposition
6	that's 171. Then you have	6	from cover to cover?
7	A. Well, I would just point out, there may be	7	A. I don't recall if I did or not. Some
8	duplicates because what I asked the Covington to do is	8	sometimes I use the index to find key sections, so I
9	to actually provide me a list of all the documents that	9	just don't recall if I read the entire thing.
10	they had provided to me, and so some of these documents	10	Q. Were you provided the entire deposition?
11	will be on the citation, they should most of them	11	A. Yes, I was.
12	will also be on this list.	12	Q. Do you remember how many pages it was?
13	Q. So Covington provided this list? They typed it	13	A. Several hundred pages, but I don't remember
14	up?	14	exactly.
15	A. Yes. Yes. This is the one part of the report	15	Q. Then you have "Documents Received From
16	that I asked them to produce. I ask them I ask	16	Plaintiffs" and you have two items; is that correct?
17	clients when I'm working for them to keep track of what	17	A. Yes.
18	they've sent me and to give a list of that and then I	18	Q. Then you have "Documents From Bayer
19	provide that to you so you know everything that I've	19	Productions," and I'm going to count those.
20	been sent. And the materials I'm sent I review.	20	And I count 69 items. Does that sound correct?
21	Q. And Covington provided all of these documents on	21	A. Does, yes.
22	Pages 1 through 12 of the Materials Reviewed; is that	22	Q. Okay. And then we have "Expert Reports," and I
23	correct?	23	see three reports and the reliance materials provided by
24	A. Substantially. There are some things, for	24	Dr. Ross and Dr. Fraunfelder; is that correct?
25	example, statute and regulations, I also give them my	25	A. Yes. And Dr. Etminan.
	Page 35		Page 37
1 2 3	list of things that are on my list that they didn't provide and then they add that to their list to create	1 2 3	Q. Yeah. But no reliance materials for Dr. Etminan?
2	list of things that are on my list that they didn't provide and then they add that to their list to create the comprehensive list.	2 3	<ul><li>Q. Yeah. But no reliance materials for Dr.</li><li>Etminan?</li><li>A. That's correct.</li></ul>
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- 1 A. I'd have to look at the timing to see if they
- were -- some of them were available. Company
- 3 depositions were available. They were simply materials
- 4 that I had not yet reviewed, but after the report, in
- 5 discussing the issues in the case, I asked for them or
- 6 the company -- or the attorneys thought it was relevant
- 7 and they sent them to me.
- 8 Q. Okay. I'm going to back off the 11 depositions
- 9 that were not reviewed before your report and, according
- to my calculations, give or take, there were
- approximately 265 documents that you reviewed before
- 12 preparing your report; is that correct?
- 13 A. That's correct.
- Q. And you did that in 50 hours.
- 15 A. Yes, that's correct.

Some of them I reviewed closely, others were for

17 looking things up and were as part of a complete set of

documents, not all of which I needed to rely on for the

19 report.

18

- Q. Do any of the -- did any of the medical
- 21 literature that you reviewed suggest a causal
- 22 association between levonorgestrel and pseudotumor
- 23 cerebri?
- 24 A. I think some of the literature, particularly
- around the Norplant, raised that hypothesis. Most of

Page 40

- literature from a PubMed search when they're in the
- 2 public domain. Typically, such a search on a topic like
- 3 that would take me several hours.
  - Q. Okay. And in this case, did you spend more or
- 5 less than ten hours doing a literature search to
- 6 determine whether or not there was or was not a causal
  - association between levonorgestrel and pseudotumor
- 8 cerebri?

4

7

- 9 A. Less than on the literature search itself. And,
- of course, there was also literature, much of the same
- 11 literature that I came across in the PubMed search, that
- was provided to me in the materials or was referenced by
- 13 plaintiffs' experts or was discussed at various times in
- the history of the FDA interactions for these -- for the
- 15 products that we're reviewing.

So in terms of review of the literature, it's

actually probably a significant fraction of the time,
 but the actual PubMed search didn't take me very long,

just a few hours. And I used it primarily to get

oriented to what the information is out there, to

21 identify articles that I don't seem to have that the law

firm can track down copies and provide copies for me.

23 Q. And how much time did you spend reviewing the

24 literature that comprised the results of your literature

search?

25

1

2

Page 39

- 1 the authors in their papers usually conclude that more
- 2 research is needed.
- 3 Q. Did any of the Bayer internal materials that you
- 4 reviewed suggest a causal association between
- 5 levonorgestrel and pseudotumor cerebri?
- 6 A. No, I don't think they did.
- 7 Q. Did you cite all of the materials that may have
- 8 suggested a causal association between levonorgestrel
- 9 and PTC in your report that you tendered in this case?
- 10 A. I did not cite all of the documents that I
- relied on in my report. The report cites the more
- important documents and selected documents but there are
- also materials in the list of materials reviewed that I
- 14 reviewed and am familiar with, but I didn't attempt to
- create an exhaustive list of all the citations to all
- 16 the documents.
- Q. Did you do your own literature search in this
- case to look for medical literature or materials that
- 19 suggest, that may suggest or disprove a causal
- association between levonorgestrel and PTC?
- 21 A. Yes I did
- Q. Okay. And how much time did you spend doing
- 23 your own literature search?
- 24 A. I don't recall exactly. I used PubMed and a
- 25 service which will pull the full-text articles of the

Page 41

- A. Well, I think that blends into the, you know, the literature search articles that I identified plus
- 3 the literature that's -- that is -- pardon me -- is part
- 4 of the production in the case or other documents.

5 That review all together is probably -- I would,

6 you know, just have to estimate. But probably about 30

7 percent of the time in terms of the document review is

8 taking a look at the medical literature that decisions

9 are being made about and what other medical literature

is available at the same time and at later points in

11 time.

- Q. So 30 percent of 50 hours would be about 15
- hours; is that correct?
- 14 A. Yes. Embedded in the process of the review,
- yes. I don't track it separately.
- 16 Q. Now, other than the articles cited in your
- 17 report, did you find any other medical literature or
- materials in which the authors suggested a causal
- 19 association between levonorgestrel and pseudotumor
- 20 cerebri?
- A. I can't think of any sitting here right now,
- aside from the literature and aside from discussions in
- 23 company and FDA documents, no.
- Q. You don't believe that there's a causal
  - association between levonorgestrel and pseudotumor

11 (Pages 38 to 41)

25

	Page 42		Page 44
1	cerebri; correct?	1	authors from time to time that discuss that hypothesis
2	A. I believe at the present time that is	2	and discuss that data.
3	that that is correct.	3	As I mentioned, they usually you know, I'm
4	Q. But you realize that there are medical	4	not sure I can tell from the articles what their
5	researchers out there who have published articles that	5	thinking or what their belief is. They often state the
6	disagree with you; correct?	6	evidence for the hypothesis and also in the same breath
7	MR. SCHMIDT: Object to the characterization.	7	talk about the limitations and how more research is
8	THE WITNESS: I would have to look at their	8	needed.
9	statements to see actually if we disagree.	9	MR. JONES: Okay.
10	There are authors that discuss the hypothesis	10	BY MR. JONES:
11	that levonorgestrel causes pseudotumor cerebri.	11	Q. Getting back to your References Cited, looks
12	Oftentimes, in their discussions they point out the	12	like you cite a lot of medical journal articles. Is
13	limitations of the available evidence and call for more	13	that fair?
14	research and place caveats. So you have to kind of look	14	A. Yes.
15	at what they say. But there are many there are	15	Q. Okay. Looks like you cite the Federal Register
16	papers, as you know, that have looked at that hypothesis	16	a few times; is that correct?
17	that there could be a relationship.	17	A. Yes.
18	BY MR. JONES:	18	Q. Okay. And those are proposed rule discussions
19	Q. Have you ever heard of a doctor named Deborah	19	and regulations that govern product safety at FDA. Is
20	Friedman?	20	that fair?
21	A. Yes.	21	A. Yes, there's both proposed and final rules in
22	Q. Okay. And do you know Deborah Friedman?	22	those citations. I usually most of them pertain to
23	A. I have reviewed I reviewed materials I	23	standards for labeling.
24	believe that she's she has written. I would have to	24	Q. Then it looks like you cite Physicians' Desk
25	see the materials to refresh my memory on who she is.	25	Reference.
	Page 43		Page 45
1		1	
1 2	Page 43  Q. Have you ever met her?  A. No.	1 2	Page 45  That's the PDR is what we know it as; right?  A. Yes, that's correct.
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	Page 46		Page 48
1	thinking on how to comply with different requirements of	1	A. I reviewed my report; I reviewed some of the
2	the regulations and the Food, Drug and Cosmetic Act.	2	materials; I continued to read the materials relating to
3	Q. And you think those are pretty good sources of	3	Dr. Ross's opinions, including his deposition, which
4	information?	4	I if I had it, I had not gone through it in as much
5	A. I think they are a good source, yes, for you	5	detail at the time I'd written the report as afterwards;
6	know, many times, there's more than one way to comply	6	I spent some of the time with some of the estimates that
7	with the regulation, and there you can see what FDA's	7	Dr. Ross had presented from his use of the epidemiologic
8	current thinking is on, for example, use of epidemiology	8	databases, I spent some time checking those numbers and
9	studies and safety evaluations is a very useful	9	those systems; talked with attorneys in preparation for
10	guidance.	10	this. Those are the types of things I did.
11	Q. Okay. Looks like you rely on some ACOG	11	Q. How many times did you meet with Bayer's
12	bulletins or opinions; is that right?	12	attorneys in preparation for this deposition?
13	A. Yes.	13	A. Once.
14	Q. And what's ACOG?	14	Q. And when was that?
15	A. American College of Obstetrics and Gynecology.	15	A. It was last I think it was last Thursday.
16	MR. JONES: I'm going to go on and mark this	16	Q. And how long did that meeting last?
17	supplemental materials list, too, so we don't lose track	17	A. Four or five hours.
18	of that.	18	Q. And since that time, you haven't met with
19	(Exhibit Feigal-5 was marked for	19	Bayer's attorneys again in preparation for this
20	identification.)	20	deposition?
21	MR. JONES: That's Deposition Exhibit 5.	21	A. No, I have not.
22	BY MR. JONES:	22	Q. Any telephone conferences with them between last
23	Q. Now, back to these invoices, we're at May the	23	Thursday and today?
24	4th or 5th. I can't remember what day it is.	24	A. Yes, I did have a brief, half-hour discussion
25	Has an invoice been prepared for the work that	25	with the attorneys Monday morning.
	Page 47		Page 49
1	you've performed for this case during the month of April	1	Q. Okay. And
2	2016?	2	MR. SCHMIDT: Larry, I don't know if you want to
3	A. No, it has not yet.	3	speak or not or just talk to you about it on the break,
4	Q. Okay. Have you when I worked in a law firm	4	but there was an earlier meeting that I think he's
5	and I billed clients, I used to have to submit my time	5	forgotten.
6	to somebody who would prepare the bills.	6	THE WITNESS: Okay. Thank you.
7	Have you done that in this case for the month of	7	MR. SCHMIDT: And if you find that
8	April?	8	objectionable, I won't do that again.
9	A. No, I have not done that yet.	9	MR. JONES: No. No. No.
10	Q. Do you have any idea how much time that you've	10	THE WITNESS: No. He's right.
11	spent in the month of April working on the pseudotumor	11	MR. SCHMIDT: Trying to help.
12	cerebri cases?	12	THE WITNESS: There were two meetings.
13	A. No, I haven't added that up.	13	MR. JONES: Okay.
14	Q. Is it less than five hours, more than five	14	BY MR. JONES:
15	hours?	15	Q. And now that your recollection has been
16	A. Well, it would be more than five hours.	16	refreshed, do you remember when the other meeting was
17	Q. Less than 20? More than 20?	17	other than last Thursday?
18	A. It's probably also more than 20. It wouldn't	18	A. It was about ten days before that.
19	surprise me if it's comparable to the time spent in	19	Q. Okay.
20	March, but I don't know exactly.	20	A. And it was also a four- or five-hour meeting.
21	Q. Okay. And the time spent in March was 41.5	21	Q. Okay.
22	hours.	22	MR. SCHMIDT: Bless you.
23	A. Yes.	23	BY MR. JONES:
24	Q. Okay. And then what did you do to prepare for	24	Q. Have you are you aware of how many experts

13 (Pages 46 to 49)

Bayer has designated in these pseudotumor cerebri cases?

25

25

your deposition here today?

	Page 50		Page 52
1	A. No, I'm not.	1	A. I have not. I actually looked to see since
2	Q. Have you reviewed any of the reports of Bayer's	2	both my father and my stepfather were faculty at the
3	other experts in these cases?	3	University of Utah, two different departments, I did
4	A. No, I don't believe so. I've reviewed Bayer	4	actually look to see if there were any people there that
5	company documents and depositions but I don't believe I	5	I knew from those contacts. But that's been some time
6	have reviewed any of the other Bayer expert materials.	6	since I've had any contact with the university and
7	Q. Have you reviewed any of the deposition	7	but I did look up the him and the department and
8	testimony of any of the other experts designated by	8	mostly focusing on him, not so much the other authors.
9	Bayer?	9	But I didn't recognize any of the names.
10	A. No, I have not.	10	Q. When you say "him," who are you referring to?
11	Q. Do you know who Dena Hixon is?	11	A. Or is it a her? Dr. Rai.
12	A. Yes, I do.	12	Q. Dr. Rai, Dr. Rai, it's a she.
13	Q. And how do you know who Dena Hixon is?	13	A. Oh, okay.
14	A. As I recall, Dena was at the FDA at the same	14	Q. She's Rai.
15	time I was. She was in the Division of Metabolic	15	A. Okay.
16	Endocrine, which then later was split and became the	16	Q. And so that was kind of a long answer. I just
17	Division of Reproductive and Urological Products.	17	wanted to make sure that I understood it.
18	Q. And when is the last time you talked with or	18	You do not know any of those authors?
19	otherwise communicated with Dena Hixon?	19	A. No, I no, I do not. And I did look up her
20	A. You know, I don't know if I've ever met her face	20	status as and she's a research fellow at the
21	to face. I just know of her.	21	university.
22	Q. And you don't believe that you've ever received	22	Q. Okay. And have you ever had any contact with
23	Miss Hixon's report in this case?	23	any of those authors?
24	A. I do not think I have had I don't recall ever	24	A. No, I have not.
25	having seen it.	25	Q. Have you ever attempted, directly or indirectly,
23	naving seen it.	23	Q. Have you ever attempted, directly of multicetty,
	Page 51		Page 53
1	Page 51  Q. My colleague tells me that, according to the	1	Page 53 to contact those authors about their particular study?
1 2		1 2	
	Q. My colleague tells me that, according to the		to contact those authors about their particular study?
2	Q. My colleague tells me that, according to the stuff on the thumb drive that she's looking at that you	2	to contact those authors about their particular study?  A. No.
2	Q. My colleague tells me that, according to the stuff on the thumb drive that she's looking at that you provided to us, that you received a copy of Miss Hixon's	2 3	to contact those authors about their particular study?  A. No.  Q. Have you had any contact with anyone at their university about the study that they have performed?  A. No.
2 3 4	Q. My colleague tells me that, according to the stuff on the thumb drive that she's looking at that you provided to us, that you received a copy of Miss Hixon's report on April the 12th, 2016.	2 3 4	to contact those authors about their particular study?  A. No.  Q. Have you had any contact with anyone at their university about the study that they have performed?  A. No.  Q. What was your purpose of trying to figure out if
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	Page 54		Page 56
1	approximately, in the Mirena MDL case?	1	A. That is correct.
2	A. It was similar in length to this report,	2	Q. Okay. So in your business there are you do
3	although, as I recall, a bit you know, perhaps a bit	3	have engagements that do not ultimately end up resulting
4	longer.	4	in testimony; is that correct?
5	Q. And in the Mirena MDL case, based upon my	5	A. Yes, that's correct.
6	calculations, you've been paid to date \$100,000	6	Q. Okay. And other than what's listed on your
7	\$100,600. Does that sound correct?	7	testimony list, since you've been consulting after you
8	A. It does sound like it's probably correct, yes,	8	left FDA, approximately how many other medicolegal cases
9	since 2013. Yes.	9	have you been involved in in which you were not required
10	Q. Now, you have given me an updated testimony	10	to testify in any way?
11	list.	11	A. I don't know. I have never really tried to
12	Do you have any trial testimony scheduled in the	12	count that up or estimate it. It's I would say that
13	next six months?	13	more than half of the engagements result in a
14	A. No.	14	deposition, at least a deposition, so this may
15	Q. Have you ever testified in favor of an	15	represent, you know, approximately half of the
16	individual human being who alleged that they were	16	engagements I've had.
17	injured by the product of a pharmaceutical or medical	17	Q. Okay.
18	device company?	18	A. But that's just a rough, rough guess.
19	A. I have been engaged in and retained in cases	19	Q. And how long have you been doing medical-legal
20	like that. None of them have ever required deposition	20	consulting?
21	or testimony at trial. Some are still active and	21	A. Since 2005.
22	haven't progressed that far, others resolved before	22	Q. Okay. So about 11 years?
23	testimony was required.	23	A. That's correct.
24	Q. How many of those cases have you worked on the	24	Q. What percentage of your time in 2015 was devoted
25	side of the individual person who claimed that they were	25	to medical-legal consulting?
	Page 55		Page 57
1	injured?	1	A. In 2015 it was approximately 40 percent.
1 2	A. I would estimate there's probably been four or	1 2	<ul><li>A. In 2015 it was approximately 40 percent.</li><li>Q. Okay. What about 2016?</li></ul>
	•		
2	A. I would estimate there's probably been four or	2	Q. Okay. What about 2016?
2	A. I would estimate there's probably been four or five over the years. There's one that's currently	2 3	<ul><li>Q. Okay. What about 2016?</li><li>A. It's been about 25 percent.</li></ul>
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#### Page 58 Page 60 1 different companies on a part-time basis on a contract 1 the George Decou, D-E-C-O-U, versus Takeda 2 through NDA Partners. We will -- with some of the 2 Pharmaceuticals? 3 companies, they're increasingly virtual companies where 3 A. Yes. 4 they don't have a full-time staff and they work -- the 4 And that was in Nevada; right? Q. 5 5 company actually consists of contract staff who will A. Yes, it was. 6 6 actually do actually most of the work for the company. Okay. And how many days did you testify at that O. 7 7 But that's a more recent type of thing we've been doing. trial? 8 Over the years, we've largely worked with the 8 That trial settled during my testimony so they 9 companies in that early sort of strategic phase where 9 probably weren't done with me, but I testified on the 10 10 they're trying to get their product started. And we 29th, the 1st, and the 6th. So I testified on three 11 work with their investors as well as with the companies, 11 days and we still weren't done. 12 help investors, due diligence, evaluate products. 12 Okay. And that was an Actos case --Q. 13 13 In 2015 you said about 40 percent of your time A. 14 was on medical-legal consulting. 14 Q. -- like we talked about earlier? 15 What did you do for the other 60 percent of the 15 A. Yes, it was. 16 16 Okay. Then the one going up before that, time? I worked with small -- I worked with these small 17 17 Pericor Therapeutics versus Merck, that looks like that 18 18 was a Triple A arbitration? companies. 19 19 In a typical point in time, I typically have A. That's correct. That was a --2.0 between 12 and 20 active small clients. You know, for 20 Q. Okav. 21 That was a business dispute between Merck and 21 example, this morning before this meeting I took a call A. 22 from one of those clients on a study design issue that 22 another company. 23 they were discussing with their statisticians. 23 Right. Q. 24 24 And so it's a lot of -- it's a very interactive Going up before that, Kevin Phillips versus C.R. 25 Bard, 2/5/2015, what was that case about? 25 process working with these companies as they try and Page 61 Page 59 1 1 That was a case that was -- involved an alleged move their products forward. 2 injury from a medical device, an inferior vena cava 2 Okay. And how much do you bill those clients 3 3 filter. 4 The rate that we have for small companies is 4 Q. IVC? 5 5 billed by the task. We identify a task and then we A. 6 price that, and it's a fixed price. If it takes less 6 And what were -- well, did you testify in that 7 7 time than that, billed at \$500 an hour, they pay the case that the company properly warned its users of the 8 8 less; if it takes more time, we just do it for the fixed 9 9 Actually, not. In that case I was actually an 10 Q. Okay. Looking at your testimony list, for the 10 epidemiology expert and so I provided testimony about 11 11 last four years it doesn't look like that there have what was known from the medical literature about the 12 12 been any updates on the trial testimony. The prior copy performance of various IVC filters and whether or not 13 13 that I had had the last trial 9/29 to 10/1/15 and accurate estimates were available about rates of 14 10/6/15, and that's the same as on the updated list; is 14 different complications. 15 that correct? 15 Okay. And the jury verdict in that case was 16 Yes. There have not been any trials this year 16 about \$2 million; is that correct? 17 17 since that time. I don't know. Okay. And let's look at that list. Can you get 18 Okay. Let's go up to the next one, Kristufek, 18 Q. 19 19 K-R-I-S-T-U-F-E-K, versus Takeda Pharmaceuticals. that list? 20 THE WITNESS: Can I get the list from you, Paul, 20 That one looks like it was in Philadelphia; is 21 21 prior testimony? that correct? 22 There it is. Yes. Okay. 22 A. Yes, it was. Uh-huh. 23 MR. JONES: Okay. 23 Okay. Was that an Actos case as well? O. 24 BY MR. JONES: 24 A. Yes, it was.

And it looks like you testified on three

Going in reverse chronological order, that was

25

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	Page 62		Page 64
1	different days during that trial?	1	A. Again, I don't know. I don't usually I don't
2	A. I did.	2	keep track of the awards, and I also realize that there
3	Q. Is that three full days?	3	are some negotiations and settlement process that
4	A. I think it was two half days and a full day.	4	changes those from the time of the trial. So I
5	And, as you notice, the you may notice, the	5	sometimes I know, but usually I don't know what the
6	Phillips trial was going on at the same time, so I had	6	results are.
7	to I had to go from Philadelphia to Nevada and back.	7	Q. Tersigni, T-E-R-S-I-G-N-I, versus Wyeth
8	Q. Oh, wow.	8	Pharmaceuticals and Pfizer in the District of
9	A. It was a it was a busy week.	9	Massachusetts, do you remember that case?
10	Q. I didn't notice that, but you're right.	10	A. I do.
11	And in that case the jury awarded approximately	11	Q. And what was the drug at issue in that case?
12	\$2.3 million; correct?	12	A. The drug was fenfluramine and dexfenfluramine.
13	A. I don't know.	13	Q. Is that Fen-Phen?
14	Q. The next one up, the Drakes versus Allergan in	14	A. Yeah. It's part of the one of the fens.
15	the District of Vermont, what was that case about?	15	Yeah.
16	A. That case related to the drug Botox used to	16	Q. Oh, it's just one of the fens?
17	treat spasticity from cerebral palsy and an allegation	17	A. The other is phentermine.
18	that a seizure disorder had been caused by the Botox	18	Q. And my research tells me that there was a
19	injections.	19	defense verdict in that case.
20	Q. And what was your role in that case?	20	Does that sound
21	A. To evaluate the evidence for the association	21	A. Yes, I believe there was.
22	between botulinum toxin and seizure disorders and the	22	Q. Then going above that, Diane Whitlatch,
23	accompanying warnings in or considerations for warnings	23	W-H-I-T-L-A-T-C-H, versus Takeda Pharmaceuticals in Cook
24	in the product labeling and the interactions between the	24	County, Illinois, do you remember that case?
25	company, FDA, and the European authorities on that	25	A. Yes.
	company, 1211, and the European authornies on that	23	A. 168.
	Page 63		Page 65
1	Page 63 topic.	1	Page 65 Q. Okay. And that was an Actos case?
1 2		1 2	
	topic.	1	Q. Okay. And that was an Actos case?
2	topic. Q. Okay. So at a high level, kind of like what	2	<ul><li>Q. Okay. And that was an Actos case?</li><li>A. Yes, it was.</li></ul>
2	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?	2 3	<ul><li>Q. Okay. And that was an Actos case?</li><li>A. Yes, it was.</li><li>Q. Okay. And in that case was there a defense</li></ul>
2 3 4	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level.	2 3 4	<ul><li>Q. Okay. And that was an Actos case?</li><li>A. Yes, it was.</li><li>Q. Okay. And in that case was there a defense verdict?</li></ul>
2 3 4 5	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded	2 3 4 5	<ul><li>Q. Okay. And that was an Actos case?</li><li>A. Yes, it was.</li><li>Q. Okay. And in that case was there a defense verdict?</li><li>A. I don't recall.</li></ul>
2 3 4 5 6	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?	2 3 4 5 6	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> </ul>
2 3 4 5 6 7	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I	2 3 4 5 6 7	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> </ul>
2 3 4 5 6 7 8	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level. Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case? A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.	2 3 4 5 6 7 8	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.</li> </ul>
2 3 4 5 6 7 8 9	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level. Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case? A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts. Q. Okay. The next one up, Myers versus Takeda	2 3 4 5 6 7 8	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.</li> <li>Going above that, In Re: Actos. This would be</li> </ul>
2 3 4 5 6 7 8 9	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?	2 3 4 5 6 7 8 9	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.</li> <li>Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> </ul>
2 3 4 5 6 7 8 9 10	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.	2 3 4 5 6 7 8 9 10	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the Western District of Louisiana.</li> </ul>
2 3 4 5 6 7 8 9 10 11	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.  Q. Okay. Was that also an Actos case?	2 3 4 5 6 7 8 9 10 11	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the Western District of Louisiana.  Do you remember that case?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.  Q. Okay. Was that also an Actos case?  A. It was.	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> <li>Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.  Q. Okay. Was that also an Actos case?  A. It was.  Q. And in that case, according to my research,	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> <li>Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level. Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case? A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts. Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that? A. I do. Q. Okay. Was that also an Actos case? A. It was. Q. And in that case, according to my research, there was a defense verdict but the plaintiff was	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> <li>Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> <li>A. I did.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level. Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case? A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts. Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that? A. I do. Q. Okay. Was that also an Actos case? A. It was. Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> <li>Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> <li>A. I did.</li> <li>Q. And at a high level, you testified that the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.  Q. Okay. Was that also an Actos case?  A. It was.  Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed documents.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.</li></ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.  Q. Okay. Was that also an Actos case?  A. It was.  Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed documents.  Were you aware of that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be Allen, A-L-E-N, versus Takeda Pharmaceuticals in the Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> <li>A. I did.</li> <li>Q. And at a high level, you testified that the warnings were appropriate and that the interactions were with FDA were appropriate; is that correct?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.  Q. Okay. Was that also an Actos case?  A. It was.  Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed documents.  Were you aware of that?  A. I was aware of that jury and that award, yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be Allen, A-L-E-N, versus Takeda Pharmaceuticals in the Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> <li>A. I did.</li> <li>Q. And at a high level, you testified that the warnings were appropriate and that the interactions were with FDA were appropriate; is that correct?</li> <li>A. Yes. At a high level, that's correct.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	topic.  Q. Okay. So at a high level, kind of like what you're testifying to in this case?  A. Yes, at a high level.  Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case?  A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts.  Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that?  A. I do.  Q. Okay. Was that also an Actos case?  A. It was.  Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed documents.  Were you aware of that?  A. I was aware of that jury and that award, yes.  Q. The next one up, Wisniewski,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> <li>Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> <li>A. I did.</li> <li>Q. And at a high level, you testified that the warnings were appropriate and that the interactions were with FDA were appropriate; is that correct?</li> <li>A. Yes. At a high level, that's correct.</li> <li>Q. Okay. And in that case the jury awarded \$9</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level. Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case? A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts. Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that? A. I do. Q. Okay. Was that also an Actos case? A. It was. Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed documents.  Were you aware of that? A. I was aware of that jury and that award, yes. Q. The next one up, Wisniewski, W-I-S-N-I-E-W-S-K-I, versus Takeda Pharmaceuticals in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research. Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> <li>Western District of Louisiana. Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> <li>A. I did.</li> <li>Q. And at a high level, you testified that the warnings were appropriate and that the interactions were with FDA were appropriate; is that correct?</li> <li>A. Yes. At a high level, that's correct.</li> <li>Q. Okay. And in that case the jury awarded \$9 billion; is that correct?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level. Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case? A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts. Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that? A. I do. Q. Okay. Was that also an Actos case? A. It was. Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed documents.  Were you aware of that? A. I was aware of that jury and that award, yes. Q. The next one up, Wisniewski, W-I-S-N-I-E-W-S-K-I, versus Takeda Pharmaceuticals in Philadelphia, was that another Actos case?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.  Going above that, In Re: Actos. This would be</li> <li>Allen, A-L-L-E-N, versus Takeda Pharmaceuticals in the</li> <li>Western District of Louisiana.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And you testified for two days in that case?</li> <li>A. I did.</li> <li>Q. And at a high level, you testified that the warnings were appropriate and that the interactions were with FDA were appropriate; is that correct?</li> <li>A. Yes. At a high level, that's correct.</li> <li>Q. Okay. And in that case the jury awarded \$9 billion; is that correct?</li> <li>A. It was a large amount, later reduced, but I</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	topic. Q. Okay. So at a high level, kind of like what you're testifying to in this case? A. Yes, at a high level. Q. Okay. And isn't it true that the jury awarded approximately 6.5 million in that case? A. I remember there was a plaintiffs' verdict. I don't I don't know the amounts. Q. Okay. The next one up, Myers versus Takeda Pharmaceuticals in West Virginia, do you remember that? A. I do. Q. Okay. Was that also an Actos case? A. It was. Q. And in that case, according to my research, there was a defense verdict but the plaintiff was awarded \$155,000 because the company had destroyed documents.  Were you aware of that? A. I was aware of that jury and that award, yes. Q. The next one up, Wisniewski, W-I-S-N-I-E-W-S-K-I, versus Takeda Pharmaceuticals in Philadelphia, was that another Actos case? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Okay. And that was an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. Okay. And in that case was there a defense verdict?</li> <li>A. I don't recall.</li> <li>Q. In fairness to you, I believe that there was</li> <li>A. Oh, okay.</li> <li>Q based on my research.</li></ul>

	Page 66		Page 68
1	H-O-F-F-M-A-N-N, in Atlantic City, New Jersey.	1	A. Yes, I do.
2	Do you remember that case?	2	Q. And what was the what drug or device was
3	A. Yes, I do.	3	involved in that one?
4	Q. What was that? Was that an Accutane case?	4	A. The drug was a drug called Humira, H-U-M-I-R-A,
5	A. Yes, it was.	5	and it was an allegation that there was an injury
6	Q. And what did you at a high level, what did	6	associated with the use of that drug.
7	you testify about in the Accutane case?	7	Q. Okay. And at a high level, did you testify
8	A. I testified about the adequacy of the warnings	8	about the adequacy of the warnings and the company's
9	for inflammatory bowel disease and the appropriateness	9	involvement with the FDA?
10	of the changes to the labeling that occurred over time.	10	A. Yes, I did.
11	Q. And in that case the jury awarded approximately	11	Q. Okay. And the plaintiff was awarded
12	1.58 million; is that correct?	12	approximately 2.2 million in that case?
13	A. Again, I don't know.	13	A. As I recall, there was a plaintiffs' verdict,
14	Q. Okay. Above that, Alen versus Takeda	14	yes. I don't know the amount.
15	Pharmaceutical in Nevada.	15	Q. Okay. Then we above that we have Cooper
16	Do you remember that case?	16	versus Takeda Pharmaceuticals in San Francisco County;
17	A. I do.	17	is that correct?
18	Q. Okay. And that was an Actos case?	18	A. Yes, that's correct.
19	A. It was.	19	Q. I'm a little confused because under the date it
20	Q. And that was a defense verdict in that case;	20	says Los Angeles, California. Is that right?
21	correct?	21	A. You know, it may be I think the San Francisco
22	A. I do recall that, yes.	22	is wrong. I think it's Los Angeles. Because I don't
23	Q. Okay. The next one, Camhong, C-A-M-H-O-N-G,	23	remember testifying in San Francisco.
24	last name, A-N, versus Takeda Pharmaceuticals in	24	Q. Okay. And was that an Actos case?
25	Baltimore City, Baltimore, do you remember that?	25	A. Yes, it was.
20	Buttimore City, Buttimore, do you remember that:		The Too, it was:
1			
	Page 67		Page 69
1	Page 67 A. Yes.	1	Page 69  Q. Okay. And in that case the jury awarded
1 2		1 2	_
	A. Yes.		Q. Okay. And in that case the jury awarded
2	<ul><li>A. Yes.</li><li>Q. And was that an Actos case?</li></ul>	2	Q. Okay. And in that case the jury awarded approximately 6.5 million to the plaintiff?
2	<ul><li>A. Yes.</li><li>Q. And was that an Actos case?</li><li>A. Yes, it was.</li></ul>	2 3	<ul><li>Q. Okay. And in that case the jury awarded approximately 6.5 million to the plaintiff?</li><li>A. Again, I don't recall.</li></ul>
2 3 4	<ul><li>A. Yes.</li><li>Q. And was that an Actos case?</li><li>A. Yes, it was.</li><li>Q. And in that case the jury awarded approximately</li></ul>	2 3 4	<ul> <li>Q. Okay. And in that case the jury awarded approximately 6.5 million to the plaintiff?</li> <li>A. Again, I don't recall.</li> <li>Q. Okay. Going above that, In Re: Gadolinium,</li> </ul>
2 3 4 5	<ul> <li>A. Yes.</li> <li>Q. And was that an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. And in that case the jury awarded approximately</li> <li>1.7 million to the plaintiff?</li> </ul>	2 3 4 5	<ul> <li>Q. Okay. And in that case the jury awarded approximately 6.5 million to the plaintiff?</li> <li>A. Again, I don't recall.</li> <li>Q. Okay. Going above that, In Re: Gadolinium, this is the Decker versus GE Healthcare case in the</li> </ul>
2 3 4 5 6	<ul> <li>A. Yes.</li> <li>Q. And was that an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. And in that case the jury awarded approximately</li> <li>1.7 million to the plaintiff?</li> <li>A. Again, I don't know.</li> </ul>	2 3 4 5 6	<ul> <li>Q. Okay. And in that case the jury awarded approximately 6.5 million to the plaintiff?</li> <li>A. Again, I don't recall.</li> <li>Q. Okay. Going above that, In Re: Gadolinium, this is the Decker versus GE Healthcare case in the Northern District of Ohio.</li> </ul>
2 3 4 5 6 7	<ul> <li>A. Yes.</li> <li>Q. And was that an Actos case?</li> <li>A. Yes, it was.</li> <li>Q. And in that case the jury awarded approximately</li> <li>1.7 million to the plaintiff?</li> <li>A. Again, I don't know.</li> <li>Q. Okay. Going above that, Fleischmann,</li> </ul>	2 3 4 5 6 7	<ul> <li>Q. Okay. And in that case the jury awarded approximately 6.5 million to the plaintiff?</li> <li>A. Again, I don't recall.</li> <li>Q. Okay. Going above that, In Re: Gadolinium, this is the Decker versus GE Healthcare case in the Northern District of Ohio.  Do you remember that case?</li> <li>A. I do.</li> <li>Q. And what is gadolinium?</li> </ul>
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	Page 70		Page 72
1	A. Yes, it was.	1	A. Describe them.
2	Q. I used to represent GE too.	2	So starting in 2012, there's a case where I
3	A. Oh.	3	represented plaintiffs who had a dispute with BlueCross,
4	Q. The plaintiff the jury awarded the plaintiff	4	and we had a settlement in that in which case the
5	approximately 5 million in that case?	5	plaintiffs got their bills paid. BlueCross ended up
6	A. I don't know the amount, but I do recall it was	6	paying.
7	a plaintiffs' verdict, yes.	7	Q. What was the nature of that dispute?
8	Q. Okay. Going up next, we have an arbitration	8	A. BlueCross had denied payment for an artificial
9	hearing, Eagle Pharmaceuticals versus The Medicine	9	intervertebral disk that I think over 40 plaintiffs had
10	Company.	10	had placed and had either bills or paid for out of their
11	Was that a business dispute?	11	own pocket.
12	A. It was.	12	BlueCross stated that they declined to pay for
13	Q. Okay. Going next, we have Reynolds, Wilkinson,	13	it because it was an investigational product but, in
14	Young, Rossitto, R-O-S-S-I-T-T-O, versus Hoffmann in	14	fact, it was an approved product and it was used on
15	Atlantic County, New Jersey.	15	label and it had been approved for about eight years.
16	Do you remember that case?	16	So
17	A. Yes, I do.	17	Q. Okay.
18	Q. Was that an Accutane case?	18	A that was the I was I played a small
19	A. Yes, it was.	19	role in just saying whatever else BlueCross has the
20	Q. Was there a defense verdict in that case?	20	authority to pay for or not pay for, this was not an
21	A. As there were four plaintiffs. As I recall,	21	investigational product.
22	there were both defense and plaintiffs' verdicts in that	22	Q. Okay. Treadwell v. Allergan.
23	case.	23	A. So this is a Botox case involving a series of
24	Q. Mixed bag?	24	alleged injuries that probably were I actually don't
25	A. Mixed, yes. Two it was two defense and two	25	remember the exact details of the plaintiff's injuries
		_	
	Page 71		Page 73
1	Page 71 plaintiffs, as I recall.	1	Page 73
1 2		1 2	
	plaintiffs, as I recall.		but
2	plaintiffs, as I recall.  Q. Okay. Then going up to 5/23/12, the Everetts	2	but Q. Is it basically the same as the Botox case that
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2 3 4	plaintiffs, as I recall.  Q. Okay. Then going up to 5/23/12, the Everetts versus C.R. Bard in Maricopa County, Arizona.  Do you remember that case?	2 3 4	but Q. Is it basically the same as the Botox case that you testified at trial about? A. No. You know, each of the Botox cases have been slightly different. All of them have the common theme in it that it's a patient who has a neurologic condition
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	Page 74		Page 76
1	don't believe that he was involved with that, with this	1	involvement with Humira?
2	particular case.	2	A. All of those cases all of those companies
3	Q. You know him from the Fen-Phen; right?	3	make TNF-alpha inhibitors, and I think this was a
4	A. Right. That's correct. Yeah, that's correct.	4	patient who had been on four or five different drugs in
5	Q. Next, Calisi, C-A-L-I-S-I, versus Abbott Labs?	5	the class.
6	A. This was a Humira case.	6	Q. Got you.
7	Q. Okay.	7	A. As I recall.
8	A. Eagle is Eagle and gadolinium we've talked	8	Then there was an inferior vena cava, a
9	about. Cooper	9	deposition relating to Accutane and inflammatory bowel
10	Q. Right.	10	disease.
11	A we've talked about.	11	The next two are on the result also in trial
12	The Wells is a case where I wasn't called to	12	testimony.
13	testify at court, but it involved another child with	13	The case involving Gates was with the da Vinci
14	cerebral palsy	14	robotic surgery device made by Intuitive.
15	Q. Okay.	15	Q. What was your role in the da Vinci case?
16	A and Botox.	16	A. As a medical device expert on manufacturing and
17	Q. Was that is that the no. What drug was	17	design standards that companies have to meet and what
18	involved for that? Oh, Botox. Okay. Got you.	18	was known about the problems with, basically, the FDA
19	A. Yeah, this was Botox.	19	aspects of the approval of products like that.
20	Bard, this was a case where I was an	20	Q. Okay. And the Willoughby case?
21	epidemiologist offering testimony in epidemiology about	21	A. The Willoughby case was a med-mal case that also
22	what was known about the use of surgical mesh and	22	cited the hospital engineer, which was an employee of, a
23	pelvic.	23	contract employee of General Electric, one of their
24	Q. Is this the okay. Have you testified you	24	companies. And so I offered opinions on the proper role
25	haven't testified in any of those mesh cases?	25	of and the responsibilities of hospital engineers, as
	Page 75		Page 77
1	A. Not in court. I've provided a deposition but	1	opposed to device manufacturers. The injury was caused
2	not in court.	2	by a malfunctioning surgical table.
3	Q. And what company did you work for? Did you work	3	So the Drake case we've discussed.
4	for Bard in that case?	4	The next Bard cases are IVC, deposition relating
5	A. I was asked to provide these by attorneys for,	5	to inferior vena cavas.
6	yes, C.R. Bard.	6	We've talked about Brunston and
7	Q. Okay.	7	Q. Now, on the Campbell case
8	A. Yeah.	8	A. Yes.
9	And An, the next case, we've talked about.	9	Q it says it's in Scott Circuit Court in
10	The next page has a deposition for Fen-Phen	10	Kentucky.
11	that's related to I'm not even sure which cases.	11	Do you remember who the attorney was who took
10	Q. That's okay.	12	your deposition in that case?
12	•		• •
13	A. The	13	A. I don't.
13 14	A. The Q. Brown?	13 14	• •
13 14 15	A. The Q. Brown? A. Yeah. I don't I guess	13 14 15	A. I don't. Q. Okay. A. There are some memorable ones but I don't recall
13 14 15 16	A. The Q. Brown? A. Yeah. I don't I guess Q. Is that a med-mal case?	13 14 15 16	A. I don't. Q. Okay. A. There are some memorable ones but I don't recall in that case.
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13 14 15 16 17 18	<ul> <li>A. The</li> <li>Q. Brown?</li> <li>A. Yeah. I don't I guess</li> <li>Q. Is that a med-mal case?</li> <li>A. You know, this reference looks incomplete. I can't quite tell which case this is. You know, I have not done very many med-mal, but I don't recall this</li> </ul>	13 14 15 16 17 18 19	A. I don't. Q. Okay. A. There are some memorable ones but I don't recall in that case. Q. Okay. Brunston versus Guy versus Bayer HealthCare? A. I believe this is a deposition relating to
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13 14 15 16 17 18 19 20 21 22	A. The Q. Brown? A. Yeah. I don't I guess Q. Is that a med-mal case? A. You know, this reference looks incomplete. I can't quite tell which case this is. You know, I have not done very many med-mal, but I don't recall this case. Q. Okay. And we have Actos. A. Then we have, yeah, more Actos. The Wendell	13 14 15 16 17 18 19 20 21 22	A. I don't. Q. Okay. A. There are some memorable ones but I don't recall in that case. Q. Okay. Brunston versus Guy versus Bayer HealthCare? A. I believe this is a deposition relating to Mirena but I'm not sure. But I I'm not sure which if that's the case. Q. Let me ask you let me stop you for a second.

	Page 78		Page 80
1	remember if they came to depositions and if this is one	1	role is to largely as a rebuttal witness to
2	of them.	2	plaintiffs' witness who asserted that the company was
3	Q. Okay.	3	required to meet certain device requirements but, in
4	A. And I don't recall at this point what they were.	4	fact, they are not because it's a banked human tissue.
5	Q. Have you ever worked with the attorneys from	5	So I did a deposition for that.
6	Covington & Burling before on any of the other cases?	6	Q. Okay. Enoch, E-N-O-C-H, v. Forest Research
7	A. Yes, I have. With the Accutane cases.	7	Institute?
8	Q. Okay. Anything other than Accutane?	8	A. This is a deposition about Lexapro and Celexa.
9	A. I believe the Covington attorneys have well,	9	Q. Good v. Pfizer Wyeth, is that Fen-Phen?
10	I'm not sure. I can't remember if they also had a role	10	A. Yes, it is.
11	in some of the Actos trials or not.	11	Q. Then we have the Mirena migration/perforation
12	Q. And what about the attorneys from Shook Hardy	12	case.
13	Bacon; have you ever worked with those	13	You gave a deposition on October the 20th, 2015;
14	A. Shook	14	is that right?
15	Q with that firm before?	15	A. Yes, that's correct.
16	A. Shook Hardy had some of their attorneys had a	16	Q. And then we have U.S.A., State of California,
17	role in some of the Actos cases as well.	17	Colorado, ex rel., Alex Booker and Edmund Hebron versus
18	Q. What about Goldman Ismail; have you ever worked	18 19	Pfizer.
19 20	with them before?	20	Is that a qui tam case?
21	A. There is a partner, there is a firm in Los Angeles where one of the names in the firm is Ismail.	21	<ul><li>A. I believe it was, yes.</li><li>Q. And who did you serve as an expert for in that</li></ul>
22	I'm not sure if it's the same if it's the same firm.	22	case?
23	But I have worked on yes, I have worked on if it's	23	A. For Pfizer.
24	the same firm, I have worked on cases with them.	24	Q. And that's obviously been unsealed; correct?
25	Q. What kind of cases?	25	A. You know, I don't know the status of that.
23	Q. What kind of cases:		71. Tou know, I don't know the status of that.
	Page 79		Page 81
1		1	
1 2	A. As I recall, these are probably on this list as	1 2	Q. The next one, Sherrer versus Truman Medical
2	A. As I recall, these are probably on this list as a deposition for relating to Lexapro and Celexa.	2	Q. The next one, Sherrer versus Truman Medical Center, Boston Scientific, C.R. Bard, is that a
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2 3	<ul><li>A. As I recall, these are probably on this list as a deposition for relating to Lexapro and Celexa.</li><li>Q. Okay. What about, have you ever worked with a firm called Bartlit Beck?</li></ul>	2 3	Q. The next one, Sherrer versus Truman Medical Center, Boston Scientific, C.R. Bard, is that a transvaginal mesh case? A. I believe so, yes.
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21 (Pages 78 to 81)

	D 02		D 04
	Page 82		Page 84
1	A. As a safety expert on safety labeling and	1	depose you and find out what your opinions are going to
2	warnings and the relationship between the evolving	2	be when we get to the trial of this case, and so are
3	evidence over time and the adequacy of the label	3	there any opinions that you have about this case that
4	labeled warnings.	4	you did not include in your 52-page report?
5	Q. So I'm looking at your report, and you say you	5	A. Generally speaking, no. There may be things
6	served as an expert consultant on regulatory matters	6	that I would be asked an opinion about that isn't word
7	under the jurisdiction of the United States Food and	7	for word contained in the report, but they would all be
8	Drug Administration, as an expert clinical	8	related to opinions in the report. So you can rely on
9	epidemiologist, and on matters related to pharmaceutical	9	the report as the basis for my opinions.
10	products, the pharmaceutical industry, and other areas	10	Q. Okay. And you did a really nice job of putting
11	within my expertise as described below; is that correct?	11	together a table of contents, which makes it easier to
12	A. Yes.	12	kind of flow through it.
13	Q. Okay. So what do what subject matters do you	13	Section I is your qualifications; is that right?
14	intend to offer an expert opinion in in these cases?	14	A. That's correct.
15	A. Well, I think it's probably easiest to start	15	Q. Okay. And then Section II is titled "FDA
16	perhaps with my general, you know, principle conclusions	16	Requirements and Review Practices," and under that are
17	near the end of the report at 51.	17	various subheadings; correct?
18	Q. Well, can I interrupt? Maybe I can	18	A. That's correct.
19	A. Sure.	19	Q. But, by and large, would you agree with me that
20	Q shortchange this.	20	the information contained in Section II is basic
21	A. Sure.	21	background information on FDA processes for drug
22	Q. It's probably a poor question.	22	development and drug labeling?
23	A. Okay.	23	A. Yes, it is. It's tailored to the issues in this
24 25	Q. Are you purporting to offer an epidemiology expert opinion in this case?	24 25	case. So there have been sections in other reports that  I didn't include here that weren't at issue here. And
23	expert opinion in this case.	25	I didn't include here that weren't at issue here. And
		1	
	Page 83		Page 85
1	Page 83	1	Page 85
1 2	A. Yes, as an as epidemiology applies to	1 2	because there were many issues around pharmacovigilance,
2	A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product	2	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with
2	A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product labeling and the adequacy of warnings.	2 3	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with this case in mind.
2 3 4	<ul> <li>A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product labeling and the adequacy of warnings.</li> <li>Q. Okay. And you are providing expert testimony</li> </ul>	2 3 4	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with this case in mind.  But it is general background. It's stuff, it's
2	<ul> <li>A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product labeling and the adequacy of warnings.</li> <li>Q. Okay. And you are providing expert testimony as in an FDA regulatory capacity as well; correct?</li> </ul>	2 3 4 5	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with this case in mind.  But it is general background. It's stuff, it's materials that would apply to generally, to all
2 3 4 5	<ul> <li>A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product labeling and the adequacy of warnings.</li> <li>Q. Okay. And you are providing expert testimony as in an FDA regulatory capacity as well; correct?</li> <li>A. Yes, that's correct.</li> </ul>	2 3 4	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with this case in mind.  But it is general background. It's stuff, it's materials that would apply to generally, to all products in a similar situation, looking at a safety
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product labeling and the adequacy of warnings.  Q. Okay. And you are providing expert testimony as in an FDA regulatory capacity as well; correct?  A. Yes, that's correct.  Q. Are there any other areas, areas of expertise, that you claim besides epidemiology and FDA regulatory issues?  A. Well, it relates to the regulatory areas, but I am an expert on safety communications and warnings, whether they come from companies or from FDA and whether they're required by FDA or not.  Q. And your report that you've submitted, the substance of it is 52 pages long; correct?  A. That's correct.  Q. Okay. And these are the opinions that you're going to be giving in this case; correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with this case in mind.  But it is general background. It's stuff, it's materials that would apply to — generally, to all products in a similar situation, looking at a safety issue developing after approval.  Q. Okay. And then Section III, you discuss Mirena specifically and the IND and NDA approval; correct?  A. That's correct.  Q. So you start getting more specific in Section III.  A. That's right. And that section, Section III, is basically the background, the type and size of studies that led to the approval and what was known at the time, and so that also is general in the sense that it doesn't really dig down in yet to the issues around IIH.  Q. Okay. And then Section IV is titled "Idiopathic
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product labeling and the adequacy of warnings.  Q. Okay. And you are providing expert testimony as in an FDA regulatory capacity as well; correct?  A. Yes, that's correct.  Q. Are there any other areas, areas of expertise, that you claim besides epidemiology and FDA regulatory issues?  A. Well, it relates to the regulatory areas, but I am an expert on safety communications and warnings, whether they come from companies or from FDA and whether they're required by FDA or not.  Q. And your report that you've submitted, the substance of it is 52 pages long; correct?  A. That's correct.  Q. Okay. And these are the opinions that you're going to be giving in this case; correct?  A. Yes; to a large extent. There may be things	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with this case in mind.  But it is general background. It's stuff, it's materials that would apply to generally, to all products in a similar situation, looking at a safety issue developing after approval.  Q. Okay. And then Section III, you discuss Mirena specifically and the IND and NDA approval; correct?  A. That's correct.  Q. So you start getting more specific in Section III.  A. That's right. And that section, Section III, is basically the background, the type and size of studies that led to the approval and what was known at the time, and so that also is general in the sense that it doesn't really dig down in yet to the issues around IIH.  Q. Okay. And then Section IV is titled "Idiopathic Intracranial Hypertension"; right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes, as an as epidemiology applies to evaluating evidence for inclusion in the product labeling and the adequacy of warnings.  Q. Okay. And you are providing expert testimony as in an FDA regulatory capacity as well; correct?  A. Yes, that's correct.  Q. Are there any other areas, areas of expertise, that you claim besides epidemiology and FDA regulatory issues?  A. Well, it relates to the regulatory areas, but I am an expert on safety communications and warnings, whether they come from companies or from FDA and whether they're required by FDA or not.  Q. And your report that you've submitted, the substance of it is 52 pages long; correct?  A. That's correct.  Q. Okay. And these are the opinions that you're going to be giving in this case; correct?  A. Yes; to a large extent. There may be things that come up today or that come up in reaction to things	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	because there were many issues around pharmacovigilance, the pharmacovigilance in this section is written with this case in mind.  But it is general background. It's stuff, it's materials that would apply to generally, to all products in a similar situation, looking at a safety issue developing after approval.  Q. Okay. And then Section III, you discuss Mirena specifically and the IND and NDA approval; correct?  A. That's correct.  Q. So you start getting more specific in Section III.  A. That's right. And that section, Section III, is basically the background, the type and size of studies that led to the approval and what was known at the time, and so that also is general in the sense that it doesn't really dig down in yet to the issues around IIH.  Q. Okay. And then Section IV is titled "Idiopathic Intracranial Hypertension"; right?  A. Yes, that's right.
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22 (Pages 82 to 85)

pseudotumor cerebri, as we called it back then, but I'm

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Q. Okay. Well, this is my only opportunity to

Page 86 Page 88 1 not an expert -- I don't -- I'm not offering myself as 1 discussed as a potential cause. 2 an expert on that condition. 2 Then Section V of your report is titled David 3 When is the last time you treated any patients? 3 Ross's, "Dr. David Ross's Report." 4 I still am actively licensed, but I have not 4 Do you see that? 5 been seeing patients since 1992, when I went to FDA. 5 A. Yes. 6 6 Okay. And how many years were you seeing Okay. And then is it fair to say that what's in 7 7 patients before 1992? that report or what's in that section of your report is 8 As a licensed physician, from 1977 through 1991. 8 your criticisms of Dr. Ross's expert report in this 9 And did you serve in -- I looked at your CV. 9 case? 10 10 It looks like you had a lot of administrative A. Yes, it is. 11 11 responsibilities during those years; correct? O. And you know Dr. Ross from FDA; right? 12 12 Well, I had my share. Yes, I -- he -- I was responsible -- I was 13 I was the residency coordinator for a couple of 13 responsible for the division he was part of and I was 14 years and I was an epidemiology program director and I 14 the director of that division for a year and remember working with him as he reviewed a supplemental 15 was a director of quality-assurance at San Francisco 15 16 16 General Hospital, but I also had a very active faculty application for a New Drug Application that year, so 17 17 practice as a member of, you know, three medical schools actually I knew Dr. Ross fairly well. 18 I was faculty at and saw patients on a regular basis in 18 What drug was that? 19 the house staff and student and fellows' clinics and was 19 It was -- you know, I forget which drug it was. 20 an attending on the hospital services, including the 20 It was a -- as I recall, it was a cephalosporin, an 21 consult services for other disciplines, approximately 21 antibiotic, and the indication was, I believe, a novel 22 22 indication, which was to prevent infections in patients four months of the year. 23 So I would say probably about half my time as an 23 getting cancer chemotherapy. 24 academic was spent in clinical care of patients or 24 Eventually, that drug didn't need to be used 25 25 patients of the house staff I supervised. anymore because growth factors could be used to raise Page 87 Page 89 1 You're smiling because you anticipated my next 1 white counts to prevent the infections. 2 2 question, which was what percentage of the time? O. Uh-huh. 3 During those years when you were working at the 3 But in the day and when I was practicing, that 4 hospitals, how many patients did you diagnose with 4 was the most common cause of death in cancer patients 5 5 pseudotumor cerebri? was infections complicating their chemotherapy. 6 6 I can recall one. So that was quite an important new indication, 7 7 Okay. How many patients during that time did and he was the primary reviewer for that. you treat for pseudotumor cerebri? 8 8 Okay. And what -- you said you were the head of We treated that patient. That patient remained 9 9 that division? 10 on my medical service with neurology consultants and 10 That's correct. I was the director of the 11 neuro-ophthalmologists acting as consultants. 11 Division of Anti-Infective Products, which is where he 12 We treated her as -- it's an unusual enough 12 was working in probably about 1994, 1995. I don't 13 condition that I can't claim to remember all my patients 13 remember exactly. 14 but, as I recall, we treated her with diuretics and 14 Q. And how much interaction would you have with Dr. 15 repeated lumbar punctures. 15 Ross? 16 Do you remember what caused that particular 16 Well, a fair amount. As a division director in 17 patient's pseudotumor cerebri? 17 the division, as I recall, we may have had not more than I don't think we knew. She was a patient who 18 18 a dozen physician reviewers and we would make rounds, if 19 was obese and a patient who had taken tetracycline, but 19 you will, on our drugs, talk about the drugs that were 20 I don't think we knew. 20 being evaluated that the physician reviewers had 21 And at least in some medical literature 21 responsibility with. 22 tetracycline has been associated with the development of 22 They usually had the lead responsibility for the 23 PTC; correct? 23 clinical aspects of the drugs. The teams also included 24 Yes. I haven't critically reviewed that 24

other disciplines like toxicologists and

pharmacologists. But I would have had almost -- you

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literature, but that is one of the drugs that's

	Page 90		Page 92
1	know, certainly every week and almost in some time	1 of	his report. Yeah, that's what these three sections
2	periods, you know, several times a week direct		e about are my criticisms or comments on points that
3	interactions with Dr. Ross.		ey're making.
4	Q. Did you get along with Dr. Ross?	4	MR. JONES: Okay. Jumping back up for a second,
5	A. Yes.		e're two minutes until the video ends, and I don't
6	Q. Was he a good employee?		ink I can get a question out and an answer in two
7	A. For the year I worked with him, I thought he did		inutes.
8	a very good job, yes.	8	THE WITNESS: All right.
9	Q. Do you think he's smart and competent?	9	MR. JONES: So let's go off the record, take a
10	A. Well, you know, my direct experience is limited	10 sh	ort break, and we'll come back to it.
11	to that year and that review, but I thought he did a	11	VIDEO OPERATOR: We are going off the record.
12	good job.	12	This is the end of Media Number 1.
13	Q. Okay. Do you think he's smart and competent?	13	The time is 11:17 a.m.
14	A. I think he is smart. You know, competent is	14	(Recess, 11:17-11:31 a.m.)
15	just a little too broad. I think you'd have to talk	15	VIDEO OPERATOR: We are back on the record.
16	about specific work products or specific opinions and	16	This is the beginning of Media Number 2, and the
17	things. I don't think he and I would always agree.	17 tir	ne is 11:31 a.m.
18	Q. You don't think that the two of you would agree	18	MR. JONES: Excuse me.
19	or you and I would agree?	19 B	Y MR. JONES:
20	A. He and I would agree.	20 Q.	Dr. Feigal, we're back on the record after a
21	Q. Okay.	21 br	eak.
22	A. I don't know about you.	22	Let's go to your CV.
23	Q. Did you guys ever have any conflict with one	23 A.	Sure.
24	another?	24 Q.	Talk about it for a second.
25	A. Not that I recall.	25 A.	Okay.
	Page 91		Page 93
1		1 0	
1 2	Q. Did you ever sanction him, punish him, write him	1 Q	Okay. We talked already about your experience
2	Q. Did you ever sanction him, punish him, write him up for any sort of deficiencies in his work product at	2 pr	Okay. We talked already about your experience ior to 1992.
	Q. Did you ever sanction him, punish him, write him up for any sort of deficiencies in his work product at FDA?	2 pr	Okay. We talked already about your experience ior to 1992.  It looks like you went to the FDA beginning in
2	<ul><li>Q. Did you ever sanction him, punish him, write him up for any sort of deficiencies in his work product at FDA?</li><li>A. No.</li></ul>	2 pr	Okay. We talked already about your experience ior to 1992.  It looks like you went to the FDA beginning in 1992.
2 3 4	<ul> <li>Q. Did you ever sanction him, punish him, write him up for any sort of deficiencies in his work product at FDA?</li> <li>A. No.</li> <li>Q. Then the next section, Section VI, is "Dr.</li> </ul>	2 pr 3 4 19	Okay. We talked already about your experience ior to 1992.  It looks like you went to the FDA beginning in 1992.  That's correct.
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	Page 94		Page 96
1	for.	1	A. It could. It was there was an OTC drug
2	Q. And how many employees did you have working for	2	division as well, and so there was a joint
3	you in the Division of Anti-Viral Drug Products?	3	responsibility between the OTC group and the new drug
4	A. When I started, there were 60. Within a couple	4	groups.
5	of years, it was up closer to 120.	5	Q. Okay. And you did so you were in those
6	Q. Okay. And did your division include any	6	positions.
7	contraceptive products?	7	By '97, had you given up the position of
8	A. It did. We had responsibility for the topical	8	director Division of Anti-Viral Drug Products?
9	contraceptives, such as nonoxynol-9 that was used in	9	A. Yes. In '97 I moved from the Center for Drugs
10	contraceptive foams and is used with coating on condoms.	10	to the Center for Biologics, where I was the deputy
11	Q. Okay. Any others?	11	medical deputy the medical duty director, center
12	A. Those were the principal ones.	12	director.
13	Q. Okay. And was that a product that was approved	13	Q. And then take me to '97 to '99. What did you do
14	as a new product while you were the director for the	14	at FDA then?
15	Division of Anti-Viral Drug Products?	15	A. So in '97 to '99 I was the medical deputy center
16	A. No. It was an old product and, largely, an OTC	16	director in Biologics. I was the second, if you will,
17	product. But we were very actively involved with	17	in support of the center director for Biologics and I
18	contraception and because of the interest in	18	also had organizational units that directly reported to
19	providing ways of preventing HIV transmission during	19	me, including the epidemiology, biostatistics, the
20	sex, which is how it's usually transmitted, and so I	20	pharmacovigilance programs, advisory committees. So I
21	served on a number of groups that evaluated	21	had a role as a deputy and then some direct
22	contraceptive methods and contraceptive studies during	22	responsibility, organizational responsibilities.
23	those years.	23	Q. Going back to the Office of Drug Evaluation-IV,
24	Q. Okay. Then so you started as the director of	24	currently, the FDA website says the Office of Drug
25	that division in '92?	25	Evaluation-IV includes three divisions: The Division of
	Page 95		Page 97
1	Page 95  A. Yes, that's correct.	1	Page 97 Nonprescription Drug Products, the Division of Medical
1 2	_	1 2	
	A. Yes, that's correct.		Nonprescription Drug Products, the Division of Medical
2	<ul> <li>A. Yes, that's correct.</li> <li>Q. And stayed in that position until '96?</li> <li>A. Yes. I held some positions concurrently but I was the division director from, yeah, 1992 through 1996.</li> </ul>	2	Nonprescription Drug Products, the Division of Medical Imaging Products, and the Division of Pediatric and
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2 3 4 5	<ul> <li>A. Yes, that's correct.</li> <li>Q. And stayed in that position until '96?</li> <li>A. Yes. I held some positions concurrently but I was the division director from, yeah, 1992 through 1996.</li> <li>Q. And what you held positions concurrently in</li> </ul>	2 3 4 5	Nonprescription Drug Products, the Division of Medical Imaging Products, and the Division of Pediatric and Maternal Health.  Is that the same structure as it was back in 1995 to 1997?  A. No. They've renumbered the offices and now the office that I formerly had is because all of the
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		1	
	Page 98		Page 100
1	Center for Drug Evaluation and Research, the CDER;	1	I can make the case it belongs in either, but
2	correct?	2	the copper is thought to have a drug-like effect and
3	A. That's correct.	3	that's the rationale for that it's different than just a
4	Q. Okay. And then '97 to '99 you moved over to the	4	plain plastic IUD.
5	Center for Biologics Evaluation and Research, the CBER;	5	Q. Were you ever during your time at FDA between
6	correct?	6	'92 and 2004, were you ever personally involved in any
7	A. That's correct.	7	part of the regulatory action related to Mirena?
8	Q. And that's a different division, obviously.	8	A. No.
9	A. Yes. It's a there are three medical product	9	Q. During your time at FDA between '92 and 2004,
10	groups that report to the commissioner, Center For	10	were you ever personally involved in any aspect of
11	Drugs, Biologics, and Devices. All of them have	11	regulating ParaGard?
12	slightly longer names than that, but those are the three	12	A. No.
13	categories you can think about.	13	Q. Have you ever written any medical articles
14	Q. Okay. And then the devices, from '99 to 2004	14	related to the Mirena product?
15	you served in the Center For Devices and Radiological	15	A. No, I have not.
16	Health; right?	16	Q. Have you ever personally been involved in any
17	A. Yes, that's right. I was the director on this	17	epidemiology studies involving the Mirena product?
18	one.	18	A. No, I have not.
19	Q. Okay. So that, the Center For Devices and	19	Q. During your time at FDA between '92 and 2004,
20	Radiological Health, they don't regulate drugs in that	20	were you ever involved in any way with the Norplant
21	division; correct?	21	product?
22	A. No. If they're if the product is regulated	22	A. No, I was not.
23	as a drug, it's in CDER, but there are combination	23	Q. Have you ever written any medical articles
24	products and drug delivery devices, some of which are	24	related to the Norplant product?
25	regulated in the device center.	25	A. No.
	Page 99		Page 101
1	Page 99	1	Page 101
1	Q. That's a good point.	1 2	Q. Have you ever conducted any epidemiology studies
2	Q. That's a good point. You're familiar with the Mirena product; right?	2	Q. Have you ever conducted any epidemiology studies related to the Norplant product?
2	<ul><li>Q. That's a good point.</li><li>You're familiar with the Mirena product; right?</li><li>A. Yes.</li></ul>	2	<ul><li>Q. Have you ever conducted any epidemiology studies related to the Norplant product?</li><li>A. No, I have not.</li></ul>
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Page 102 Page 104 1 the existing literature and the evidence that's 1 consultant. 2 available through post-marketing surveillance. 2 I think initially I thought it would just be a 3 BY MR. JONES: 3 bridge until I found something else. But I considered 4 4 two different firms and selected NDA Partners. Q. And you did that for purposes of criticizing 5 5 plaintiffs' experts' methodology and results in this Q. And when you were at FDA, obviously, you were in 6 6 the Washington, D.C., area; right? case: correct? 7 MR. SCHMIDT: Object to characterization. 7 A. Yes, that's correct. 8 THE WITNESS: Well, that's probably where I 8 Okay. And where -- back in 2004, where was NDA 9 summarized it in my report but it would have been 9 Partners, L.L.C.? Where was their office located? 10 10 relevant for me to do that proactively even if they We had a physical office for the business side 11 11 hadn't used those methods. The tools they were using of things in Virginia, in suburban Virginia. It's now 12 in Madison, Virginia, down near the University of 12 were appropriate, even if I disagree with exactly how 13 13 they used them or their conclusions. 14 BY MR. JONES: 14 And how many individuals were part of NDA 15 So the tools were appropriate? 15 Partners, L.L.C., when you started discussing an Q. 16 opportunity with them? 16 Yes, for evaluating reporting rates the 17 17 OpenVigil tool is an appropriate and -- convenient and There were ten partners. 18 18 Okay. And had you had any sort of dealings with appropriate tool for constructing the kinds of tables 19 19 and analyses that are used in pharmacovigilance. these ten individuals while you were at FDA? 20 So is it fair to say that your criticisms are of 20 Yes. The founder of the group is Carl Peck, and 21 21 the data that they inputted into these tools? Carl was the director of the Center For Drugs and the 22 The criticisms are the way that they made their 22 person who recruited and hired me at FDA to be the 23 23 selection of how to construct the tables rather than the division director for Anti-Viral Drugs. 24 2.4 There were other members that I knew. One of software that generated the tables. 25 25 Q. Have you ever heard the -- strike that. them had actually been on an advisory committee that --Page 103 Page 105 1 Okay. So you left FDA in 2004 and went to NDA 1 while I was at -- while I was at FDA, Dr. Lou Scheiner, 2 Partners, L.L.C.; correct? 2 and while I was at FDA and Dr. Peck had left FDA and he 3 That's correct. 3 was a faculty at Georgetown, some of his faculty who I 4 And was NDA Partners, L.L.C., in existence at 4 met at that point were also partners in this -- had left O. 5 5 that time or were you a founder? the university and were parts of this firm. So I knew 6 6 about half of the -- I knew about half of the partners I'm almost a founder. It was -- it had been in 7 7 existence about six months and it was just getting when I joined them. 8 8 started and organized. But they've taken to calling me Did you voluntarily leave FDA? 9 a founder now but in the early days they were -- they 9 10 pointedly reminded me that I joined late. 10 Then from 2006 to 2008 it looks like you went to 11 Yeah, that happens. But six months is -- I'm 11 work for a pharmaceutical company? 12 with you. You should be designated as a founder. 12 Yes, that's right. I became an inactive 13 How did you hook up with these folks to get 13 partner. I kept my equity but I became an inactive 14 started in NDA Partners, L.L.C.? 14 partner. 15 Well, after leaving FDA, we -- I left FDA, my 15 Elan allowed me to follow up with my existing 16 wife and I had -- she'd at the National Cancer 16 clients but I took no new clients during that time. And 17 Institute, I had worked at the FDA. 17 I -- at Elan Pharmaceuticals I was the senior 18 She got a great job with a new research 18 vice-president for global regulatory, safety, and 19 institute in Phoenix, Arizona, and when I moved to 19 20 Phoenix, Arizona, I didn't find a university that had --20 And what kind of products does Elan 21 there was no medical school in that town, at least there 21 Pharmaceuticals deal in? 22 wasn't then, and there wasn't any other -- I thought I 22 The company has changed at different points in 23 would go back to university and go back to teaching but 23 time, but when I was there, the products that were 24 there really wasn't something that was a good fit for me 24 active were products for neurologic diseases, such as

multiple sclerosis, Parkinson's disease, Alzheimer's,

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so I began looking at opportunities to work as a

Page 106 Page 108 1 chronic pain which requires pain pumps into the 1 A. That's correct. 2 intrathecal space by the spinal cord. 2 O. Why did you leave Amgen? 3 So it was largely a neurology product, product 3 It was a planned departure. I was -- I wanted 4 4 to actually increase the amount of time I spent company, at the time that I worked there. We had a 5 5 couple of antibiotics but the new products were all in teaching, and it was a real challenge for me to teach in 6 6 the neurology area. Arizona while I was working for Amgen in California and 7 7 with their schedules. And I also enjoyed the Any contraceptive products? 8 8 Not at the time I was there. independence of being a consultant. 9 Okay. Then 2008 to 2010 -- well, let me back 9 And so I actually informed the person I reported 10 10 to that I was planning to leave and he asked me to stay 11 11 Why did you leave Elan Pharmaceuticals? for another six months to recruit and train a successor, 12 12 I was commuting from Phoenix to South San and I did that and then left at that point. 13 13 Francisco and my wife had -- was still at the research Were you ever asked to leave Elan 14 14 Pharmaceuticals or Amgen? institute in Phoenix, and so after about a year we made 15 15 a decision to sort of look for a job where we could both A. 16 And at Amgen, as the vice-president of global 16 work in the same city. And we looked for something in 17 regulatory affairs, what did you do? 17 the Bay area, where I was working, but Amgen in Southern 18 California offered both of us a position, and so I left 18 A. I was responsible for a team of regulatory 19 Elan at that point and both of us went to work for 19 affairs professionals. 20 20 I had direct responsibility for the U.S. and Amgen. And what did your wife do for Amgen? 21 21 Q. Canada interactions; I had supervisory and strategic 22 She's an oncologist. She was director of one of 22 responsibilities for European submissions, although we 23 23 the large divisions at the National Cancer Institute. had a group of regulatory people on the ground in Europe 24 So she became part of their cancer drug product 24 that did the direct work there that was somewhat 25 25 development team. parallel to my activities; and I also had Page 107 Page 109 1 And what kind of products did Amgen sell? 1 responsibilities for a regulatory policy staff that 2 Amgen had six or seven products on the market. 2 evaluated FDA guidances and, you know, changing FDA 3 Most of these were -- the most successful of them were 3 policies and changes even in the law. 4 biological products, some of them were growth factors. 4 Were you involved in preparing NDAs for Amgen? 5 I mentioned before that growth factors can 5 BLAs, yes. These were biologics, so like --6 6 stimulate the body to make more white cells, which they're like an NDA, except they're biological licenses 7 7 protects you from infections and cancer. instead of New Drug Applications. 8 The erythropoietin was another product that they 8 Okay. 9 manufactured that could stimulate the body to make red 9 But we also did have NDAs as well. We had a 10 cells and treat anemia in patients that don't have 10 product, it would have been supplements that I would 11 normal levels of erythropoietin, which is the situation 11 have been involved in, but we had a small molecule for 12 with kidney failure. 12 bone disorders and kidney disease that I was involved in 13 They also had products to treat psoriasis, 13 preparing reports and applications for new indications, 14 rheumatologic conditions, and, you know, products for 14 designing studies for new indications, post-market 15 cancer, for bone disease. 15 surveillance, those types of things. 16 Those were the six or seven approved products, 16 Were you -- while you worked at Amgen, were you 17 and then at any given time they typically had about 40 17 involved in preparing Periodic Safety Update Reports for 18 products that were in human clinical trials being 18 products? 19 evaluated for whether they should progress to more 19 I was responsible for submitting them and 20 extensive trials. 20 seeing -- you know, reviewing them as part of that 21 Any contraceptive products while you were 21 22 working at Amgen? 22 At Elan, those -- the safety reports and things 23 No, there were not. 23 were my direct responsibility because at Elan I had

28 (Pages 106 to 109)

At Amgen, I was in a much larger company and I

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regulatory and safety.

And then you left Amgen to go back to NDA

Partners in 2010; is that correct?

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#### Page 110

- was responsible for regulatory but I had a role in all 1
- 2 of the safety communications and filings and on all the
- 3 safety committees and so forth but safety itself was
- 4 directly supervised by another individual.
- 5 Were you the signatory on the PSURs?
- 6 No, I was not.
- 7 O. But you did review the PSURs?
- 8 Α.
- 9 That was part of your job? Q.
- 10 Yes, that was part of my job. A.
- 11 Q. And --
- 12 And at Elan, my job was to organize the staff to
- 13 prepare them. And I was much more hands on there,
- although I still was not the signatory, as I recall. I 14
- 15 may have been but I don't think I was.
- 16 The PSURs I've seen have been, you know, very
- 17 large. I mean, there are many, many pages.
- 18
- 19 Q. Based upon your experience from the
- 20 pharmaceutical company side, tell me a little bit about,
- 21 you know, what goes into preparing a PSUR.
- 22 Sure. Well, you know, it's a very structured
- 23 document. It has a very specific organization and
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Some of it I sort of describe as being similar

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- type of condition. So if you were interested in what
- are the neurologic complications of levonorgestrel,
- 3 there will be a section where you can actually look and
  - see what types of things have been reported. Headache
- 5 could be a common one but an IIH a rare one.
- 6 And there is a -- sections that -- where you
- 7 compile the literature. FDA has changed its policy from
- 8 time to time. There was a period where they said, don't 9 send in the literature when everything was paper because
- 10 the FDA has access to the National Library of Medicine.
- 11 Now, because everything is electronically, the
- 12 practice varies. But you submit a bibliography of new
- 13 information, you provide in the annual reports or the
- 14 periodic safety reports listings of the ongoing studies
- 15 and there will be a section that describes that.
- 16 And there are also are parts of the PSUR where
- 17 you address specific issues that are being followed.
- 18 Some of these come from requests from a regulatory body.
- 19 In Europe, there's actually a formal process for
- 20 designating certain issues for follow-up.
  - So the process of putting these together, one
- 22 year it starts, as soon as you finish one year's report,
- 23 you start compiling it the next. And then when it's
- 24 compiled, generally speaking, there's a cover letter
  - that's written by someone in regulatory affairs and it's

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- 1 to getting a phone book. You can look things up and you
- 2 know where to find them. You don't have to start at the
- 3 beginning and start reading to try and find things.
  - So the PSUR is a -- well, the PSUR is the
- 5 European format, as you may know. The U.S. requires
- 6 Periodic Adverse Drug Event Reports, PADERs, and annual
- 7 reports, quarterly reports initially, then annual
- 8 reports.
  - FDA will accept PSUR reports because they're so
- 10 similar. So, actually, while I was at FDA, FDA agreed
- 11 and the Europeans agreed that they would accept an
- 12 annual report and that the annual report would be due on
- 13 the drug's birthday, actual birthday.
  - Before that, when I arrived, actually, you
- 15 almost had an annual report in every region due every 16 couple of months because it was totally unsynchronized
- 17 and there were different reports.
- 18 So anyway, they are different formats, but
- 19 whether we -- you know, we can call them PSURs or
- 20 PADERs, whatever you'd like.
- 21 One large part of it is to collect the
- 22 individual spontaneous reports that have occurred and to
- 23 actually print those and to provide those. Now they're
- 24 electronic, of course.
  - Those same reports are actually organized by

- Page 113
- submitted electronically these days, in paper in the old
- days to the regulatory agencies for their records and
- 3
- 4 So how -- you know, generally, when you're
- 5 preparing one of these periodic reports, how much time
- 6 goes into compiling the information and putting that in
- 7 the form that the regulatory body wants it in?
- 8 The compiling is not the whole picture because
- 9 most of the reports have already been -- like I say, the
- 10 15-day reports that may be provided again in the PSUR.
- 11
- The real time of preparing those went into the time when
- 12 the reports initially came in and the people, the staff, 13 are collecting the information, getting follow-up with
- 14 the reporter, coding them, entering them into the
- 15 database.

the original information.

- 16 17
  - At the end of the year, when they're all in the database -- and Argus is one of the databases -- then
- 18 the database is actually designed to actually create the
- 19 reports either with the MedWatch format or the SIANS
- format, the European format, and spit them out, if you 20 21 will, all organized.
- 22 So the compiling at the end of the day now is 23 not where all the time is. The time comes in collecting
  - But that said, I think when the company puts

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#### Page 114

- 1 together a PSUR, it also takes that opportunity to make
  - sure that they read it and sort of take a look at the
- 3 summary at this point in time and say, all right, is
- 4 there -- are there things in here we haven't noticed
- 5 before or, you know, does this give us a better insight
- 6 into something?

2

- 7 So there's -- I can't even begin to estimate the
- 8 hours. I think our staff that did most of the work at
- 9 Elan, a small company, was about 16 people but at Amgen,
- between regulatory and safety, there were over 900
- people. And so it's -- there's a lot of -- there's a
- lot of people that go into that. And then most
- companies had contractors to help with the
- 14 post-marketing surveillance.
- Q. And so back when you were at Elan and Amgen, is
- that back in the days you said you'd still send it to
- FDA in paper form?
- 18 A. No. It was electronic by then.
- 19 Q. It was?
- 20 A. Yeah.
- 21 Q. Okay.
- 22 A. It's gotten more and more electronic.
- You know, in those days we would actually, for
- example, just to give you a small example, we would
- actually write out the MedDRA codes, that's the coding

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- but it's all plain text but there's a lot of
- 2 instructions that says, you know, this font, this color,
- 3 center it --

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- Q. Right.
- 5 A. -- and so forth, or this is the table of
- 6 contents or this is a new page.

7 All of that tagging is now embedded so that the 8 reports actually automatically load into the databases

- reports actually automatically load into the databases,
  automatically load into the FDA record systems and the
- automatically load into the FDA record systems and the
- ${\tt 10} \qquad {\tt European\ record\ systems\ and\ the\ Japanese\ record\ systems.}$
- 11 They've harmonized and standard this -- standardized
- this and this has been a process that has been evolving.
- And FDA calls submitting now publishing. When you submit something, you publish it to the FDA website
- because it's coming in as a tagged document. Labels are
- 16 all that way now.
- 17 Q. Now, back when you said that it might arrive in
- PDF form or Word form, was somebody just E-mailing a
- 19 document to somebody?
  - A. No. In those days, what you'd get is you'd get
- 21 the paper for archival records, and some reviewers would
- actually work off of a paper record when it came in but
- 23 they would also have the PDF that they could load on
- their computer. And so you -- a typical application
  - would be the paper submission plus the electronic

#### Page 115

- dictionary for adverse reactions, they actually write
- them out on the form. Now FDA says submit them
- 3 electronically and just submit the code, don't submit
- 4 the text, because the text may change slightly over
- 5 time. Like, you know, as you know, this syndrome has
- been called three different things over time but,
   ideally, the code will always be the same.
- 8 O. Right.
- 9 A. So FDA now says, well, just submit it
- 10 electronically and just submit the code.
- So there's -- it gets more and more electronic over time.
- Q. Now, when you were back at FDA in 2004, were you
- guys getting them electronically or in paper back then?
- 15 A. We were getting them electronically, although in
- those days what electronic usually meant was that we
- would get PDF files, we would get Acrobat files, and
- some of them in Word documents. If we wanted the
- ability to edit or cut and paste things from the
- documents, it's easier to do that in Word than Acrobat
- 21 PDFs.

25

- Where things evolved since then is that now
- they're submitted almost like web pages where the
- 24 information on the reports is tagged the way -- I don't
  - know if you've ever seen what's underneath a web page,

- 1 versions.
- 2 Q. Okay.
- 3 A. And then FDA would load the electronic versions
- 4 into its electronic document room, but for a long period
- 5 and I imagine some types of records might -- this still
- 6 might be true, they kept both the paper and the
- 7 electronic. And it depended on the reviewers, which
- 8 they preferred to work with oftentimes in the old days.
- 9 There was even a period where every company did 10 something slightly different and they actually sent in 11 the computers but then they sent in the paper for
- 12 archival purposes.
  - So it's really evolved over this time period.
- When I arrived at FDA in '92, we weren't using Windows
- 15 and we didn't even have E-mail that was the same
- 16 system-wide. If you wanted to send an E-mail to another
- floor, you printed it out and somebody put on their
- 18 sneakers and ran upstairs.
- 19 Q. Uh-huh. Uh-huh.
- 20 A. It was called sneaker mail.
- Q. It's amazing how far we've come along.
  - A. Yeah. My first job in college was to calculate
- 23 standard deviations on a manual calculator so...
  - Q. Well, you know, I've worked on a gubernatorial campaign, a successful one, in 1995 and I tell people we

30 (Pages 114 to 117)

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#### Page 118

- 1 had one computer --
- 2 A. Yeah.
- 3 Q. -- for the entire state. That's amazing.
- 4 Yeah. You know, in those days, the University
- 5 of California listed the university's fax machine. It
- 6 was not plural.
- 7 Okay. One other thing. This has been helpful,
- 8 kind of getting a peek behind the curtain.
- 9
- 10 Today, when somebody is sitting at FDA and one
- 11 of these periodic reports comes in, what are they seeing
- 12 on the FDA side? Is it going into a database?
- 13 It will be, quote, published to FDA, so it will
- 14 be uploaded electronically and then it goes into an
- 15 electronic record room. And the record room still has
- 16 much of the same structure that the paper records have.
- 17 So the submissions are numbered and they're classified
- 18 in different, you know, different types and there's a
- 19 database that has the high-level summary of what each
- 2.0 submission is. You can see a little of that on the
- 21 public sites.
- 22 The reviewer can actually pull up any of those
- 23 documents and then, depending on the types of documents, 24
- the reviewer can do a full text search. The documents
- 25 for the last 15 years have had hyperlinks, so you're in

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- medical team leaders. Each of those team leaders would
- have -- do their own work. They would have some primary
- 3 responsibilities but they would supervise -- if it's a
- 4 physician team leader, they would supervise, say, three
- 5 other physician reviewers. So each physician has a 6
  - portfolio of drugs that they're responsible for.

The CSO is the point of contact with the regulatory group in the company. As documents come in

9 every day, the CSOs are informed that there's new

10 documents for drugs they are responsible for.

11 So for active drugs, a medical officer might be 12 responsible for a dozen very active drugs and 20 sleepy

13 drugs, and some drugs that if anything ever comes in,

14 that -- you know, there are some drugs that FDA is still 15 responsible for that are just barely used anymore. So

16 they have -- their work is sort of prioritized by how

17 active the products are.

18 But when something new comes in, they learn 19 about it. There is usually a little bit of a lag

20 because even though it's loaded and it's somewhat

21 automatic, it's the CSO's job to identify -- you know,

22 identify the documents.

23 So when I was division director, actually -- and 2.4 I think things may be busier these days, but in my day,

as I recall, one year, when we looked, we were averaging

#### Page 119

- 1 the table of contents, you click, you jump to that
- 2 section.
- 3 So there's a lot -- it's a lot easier to
- 4 navigate this stuff now than it was, but even when it
- 5 was paper, people could do it because it was so
  - organized.

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- 7 How is -- over at FDA, you know, based upon your
- 8 experience, you know, how are people assigned to -- how
- 9 does one know, an employee know, okay, hey, we've got a
- 10 PSUR in for this product, that's my task? How do people
- 11 know that? Are they, people, assigned to specific
- 12 products or what?
- 13 Yes, they are.
- 14 So drugs which are active have a team assigned
- 15 to it that will -- in contraception would typically
- 16 consist of a physician, a pharmacologist, an animal 17 toxicologist, animal pharmacologist, a statistician on
- 18 an as-needed basis, and a project manager who is
- 19 responsible for coordinating things on the team. Used
- 20 to be called consumer safety officers, now they're
- 21 called project managers.
- 22 Has it ever been called a team leader?
- 23 No. A team leader is within a discipline. So
- 25
- each -- so among the physicians, for example, a typical division might have three medical team leaders or four

- about 70 submissions a day.
- 2 And a submission could be as short as a
- 3 thank-you letter --
  - Q. Uh-huh.
- 5 -- for a recent meeting or meeting minutes or it
  - could be a PSUR or it could be a single safety report.

7 So we had 16 medical officer reviewers and there

8 would be about -- you know, between them, they would

9 have eight or so new documents per day that would be

10 logged in that -- and they would be informed of that and

they would sort of keep track of that.

12 And then the teams would meet and they would go 13 over what's new this week, what's pending, do we have 14 company meetings coming up, are there reports, are there

15 deadlines, are there advisory committees so...

16 And do these individuals that review these 17 submissions, do they have any other responsibilities in

18 their job other than reviewing submissions?

19 In the new drug divisions, which we're talking

20 about, where Dr. Ross and I both spent our time in the

21 drug center, that is the principal responsibility is to

22 review submissions, but in -- it isn't all just

23 reactive.

24 There are times when an issue is identified that 25 the staff work on, so they might actually seek a consult

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- from the epidemiology group or they may ask the FDA's staff to prepare a report of 15-day reports and then they'll typically ask the company at the same time they do an internal one, because they have slightly different databases in the company than FDA.
- They may actually do literature reviews and things but it's almost all -- it almost all does relate to their products. There are other responsibilities, you know, there's training and different kinds of things that they have to do and they have to supervise other people, but it is organized around the submissions that come in.
- Q. And when we talk about submissions, are these people part of the teams of people who review New Drug
- 15 Applications and Investigational New Drug Applications?
- A. Yes. In -- there have -- there are places in
- the FDA where they separate the investigational from the
- approved and they have separate teams once a product is
- approved, but in drugs the same team is responsible for
- 20 the -- everything going on with the product when it's --
- 21 whether it's investigational or on the market or
- sometimes it's a mix. You may have studies for new
- 23 indications for an old product at the same time it's
- 24 approved for older indications. So it's one team that
- has responsibility for that. And yeah.

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- I mean, it's -- the new drug division, it's a bit of a misnomer because it's really the new and the old.
- 4 Q. Uh-huh.
- A. They have the responsibility for new products on the market and maintaining the labels and making the labeling changes and then the other groups work as consulting groups to them, although many of those groups actually have staff that are virtually embedded in the

actually have staff that are virtually embedded in the
 new drug divisions.

11 There's typically these days a deputy director

explicitly interacts with safety staff.
 Q. On these teams, how many different New Drug
 Applications or IND applications would they be dealing

for safety in most of the new drug divisions that

with in a year, on average?

A. I would say that, you know, if you look at how

many New Drug Applications for novel products that had
 never been previously approved, the number per year for

the whole FDA ranges between 20 products and 40

products. I think one year it hit 50 or 55. But 20 to 40. I think the overall average over all the years is

23 24, is two dozen.

So those 24 applications are split up among what are now 16 new drug divisions, and so in any new drug

#### Page 123

Q. I think I'm understanding you. I just want to make sure that I'm clear.

The team members that would be involved in an NDA, for instance, for purposes of continuity, is it that same team that then is responsible for reviewing the periodic reports?

 A. Yes. And that's the team that's responsible for maintaining the product's labeling.

So there is a safety and epidemiology group and there's an advertising and promotion group that's separate from the new drug groups. They each have their responsibilities. The epidemiology group puts together the database of the AERS reports as it comes in, they do some of their own safety research, but the same type of information is also going to the team that's responsible for the drug.

- Q. Uh-huh.
- A. And so they work together.

There are more people in the new drug divisions actually tracking safety than there are people in safety and epidemiology, which have a very small part of it.

The team sees everything. They see the animal work, they see the pharmacology, they see the chemistry and manufacturing, which isn't much of an issue with this product, they see recalls that happen.

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division there's probably only one or two novel products
 that's going to be approved for the first time in a
 given year.

Some areas, you know, are -- get more of them, like the cancer. There's a lot more going on with cancer. So that's with the new ones.

Now, there also are New Drug Applications where there's a capsule version of what was a pill, and that's largely reviewed by the pharmacologists and the chemists, not so much by the medical officer. There's about 50 or 60 of those a year. And then there's the labeling supplements and all of the rest of that type of stuff.

But your average medical officer would probably only deal with a brand-new drug every couple of years but would have applications for new versions of old drugs or new indications or safety updates for probably I would say averaging 8 to 20 drugs at any given time, of which there's probably three or four that are really active and the rest it's more -- you know, there's not as many things going on.

- Q. What about generic drugs?
- A. That's a whole different division. And those
- 24 come in by the hundreds.
  - Q. It's -- but it's part of the CDER, right,

32 (Pages 122 to 125)

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Page 126

Page 128

- 1 though?
- 2 A. It is. It's its own group. And the generic
- drugs, you know, do not review labeling at all, they
- 4 don't review safety at all. They review whether a
- 5 product is bioequivalent, meaning if you take two
- 6 versions of the same drug, do you get the same blood
- 7 levels and is the manufacturing being done to FDA
- 8 standards. That's the basis for the approval of a
- 9 generic drug.
- 10 Q. Okay. Back to your CV, it looks like you taught
- a food and drug law class at Arizona State University?
- 12 A. Yes.
- 13 Q. Is that right?
- 14 A. Yes. I still do.
- Q. Okay. Yeah. It says 2005 to, nothing is in
- 16 there so --
- 17 A. Yeah. I've done that --
- Q. So you've been teaching that for the last 11
- 19 years or so?
- 20 A. Yeah. Whatever that is. Yeah, 11 or 12.
- Q. And is that -- is there a law school at Arizona
- 22 State?
- A. Yes. They're quite proud of it. I know in the
- East you probably don't even know that there's a
- 25 university called Arizona State. But it does have a

1 each product type.

2 So we'll talk how are drugs developed, what are 3 the rules for investigational drugs, what's the logic

for how they're done, how do the regulations actually

5 shape the science, the studies that are done.

6 And then we do the same thing with biologics and 7 with devices and combination products, and we talk about

8 how much of FDA's regulation revolves around rules

9 around labeling, which is, you know, in law speak,

10 speech.

Q. Uh-huh.

12 A. And that's actually FDA's probably principal

tool is regulating speech. And we talk about -- there's

been a lot of developments and controversies over the
 years of how speech is regulated by consumer protection

years of how speech is regulated by consumer protection agencies.

agencies.And so we present that sort of framework, talk

about FDA's enforcement authorities, we talk about manufacturing standards for different types of products,

manufacturing standards for different types of produ
 we take a brief look at how other countries organize

their, you know, their efforts, some similar, some not

so similar. We look at how FDA gets involved when

23 there's a public health crisis like a new epidemic or

something like that so -- and what does FDA do to

encourage development of products where there's unmet

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#### Page 127

1 good law school and --

- Q. Is this course at the law school?
- 3 A. Yes. It's an elective course. It's jointly
- 4 offered to law students and engineering graduate
- 5 students

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- 6 Q. Okay. And tell me a little bit about what you
- 7 teach in the food and drug law course.
- 8 A. We -- it's an elective in both the engineering,
  - College of Engineering and the College of Law.

It's -- what we teach is basically how FDA, as a consumer protection organization, is structured, how it

derives its authorities, what types of products it has oversight for, and how it specifically interacts with

different types of products.

So we begin the course by presenting some of the

16 historical background on adulteration, which is really

what drove a lot of these issues in the 1800s and the early laws in the 1900s and the push for accurate, truth

in advertising, if you will.

- 20 Q. Uh-huh.
- A. So there you get misbranding.
- 22 Q. Uh-huh
- A. So we talk about those as being sort of the core
- around -- authorities around which the FDA consumer
- 25 protections are built and then we spend several weeks on

medical need.

2 So there's 13 two-hour lectures in the course

and the principal teachers for the last ten years have

4 been myself and a pharmacist/lawyer. And so we have

5 kind of complementary backgrounds. He teaches the

6 engineers a little bit about torts and to give them some

7 background and we talk about how preemption is a factor

in that.

9 The course is really more a health policy course 10 than a law school course, per se. It's not taught like

12 Q. Uh-huh.

a case law law course.

13 A. It's really more kind of a blend of health

14 policy.

There are two very different groups of students.

Some of them know a lot of science and the other of them

know a lot of law and then they see kind of how the two

merge together.

19 Q. Do you use a textbook in this course?

A. We have. We've used a textbook by Adams that's

21 published by the Food Drug Law Institute on FDA.

Frankly, we found it was too much law and not

enough of the science background so we largely teach the
 course based on FDA documents and public documents and

when a topical issue arises, you know, such as

33 (Pages 126 to 129)

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compounding, for example, we'll even pull in the press stories and the Center for Disease Control documents and things.

So we have a tool called Blackboard, which wasn't around in my day when I was a student, but it allows the students to actually have access to reading materials. And so we have them read sections of the law and sections of regulations and the guidances that all fit together and then we usually try and find some topical news stories and things to kind of put some

11 flesh on the bones.

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12 Other than the Adams textbook, have you ever 13 used any other textbooks?

14 No. Some of the students follow Peter Barton 15 Hutt's book. He's got a case law, case law book. 16

I taught an undergraduate version of the course for a couple of years and we used, I think his name is Hilt, but there was a book written with kind of more of a lay perspective that we used when we taught it with undergraduates. And we didn't -- we didn't cover much law.

22 That one really was looking at sort of just the 23 whole system and how the Government sets up 24 administrative agencies that have responsibilities that 25 are delegated to it by Congress and how that all works.

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- 1 is really -- you know, could be nicknamed FDA-101. It's
  - similar to the courses that companies offer their
- 3 employees that are getting into regulatory except that
  - we do more deliberately sort of focus on the fact that
- 5 the law gives FDA certain authorities and then they have
- 6 to actually find ways to use those authorities to get
- 7 what they want done and how they -- and the rule-making
- 8 process and the transparency, which is unique in this
- 9 country compared to many other countries.
- 10 And you mentioned preemption before, which is a
- 11 legal concept.
- 12 Yes. A.
- 13 And do you -- have you guys taught in this class Q.
- 14 about, have you heard of a case called Wyeth v. Levine?
- 15 Yes. And Mensing and other things.

You know, in 2005 preemption was one of our more boring topics. It's gotten progressively more interesting over the years, probably more to the faculty

19 than to the students. So we introduce, we introduce the concept that

20 21 there are times when the federal law preempts state

- laws. 23 Q. Uh-huh.
- 24 And we don't really offer opinions about it, we
- 25 just really say this is -- these are the developments,

#### Page 131

- 1 And you mentioned your lawyer/pharmacist that --
- 2 A. Yes.
- 3 -- co-instructs with you.
  - What's his or her name?
- 5 His name is Roger Morris. He's at Quarles. So
- 6 he's another volunteer faculty like myself.
- 7 And you mentioned that he kind of provides the
- 8 insight on the tort law.
- 9 Well, he does -- he's the lawyer of the two of
- 10 us, so if it's something that has to be framed in the
- 11 way that lawyers think about things, he does that part
- 12 of the lecturing, I bring the medical, the FDA, the
- 13 policy, the regulatory sides of things. So we
- 14 complement each other pretty much.
- 15 And in this course do you teach or discuss the
- 16 difference between common law and FDA regulations?
- 17 Very, very lightly. We sort of talk about the
- 18 fact that there are these different -- particularly for
- 19 the engineers. The law students probably know this.
- 20 But we talk about how there are different ways that the
- 21 law comes about. Common law is one, legislation that
- 22 specifies certain things interacts with common law
- 23 but -- and then there's administrative law, which is
- 24 kind of an interesting body unto itself.
- 25 But that's probably a more advanced topic. This

- 1 these are -- this has been how it's been applied --
- 2 Q. Uh-huh.
- 3 -- and, you know, talk about some of the ways
- 4 that that influences consumers' ability to, you know,
- 5 seek remedies through the tort system as opposed to some
  - other mechanism. So, yeah, it's been an interesting,
- 7 it's an interesting area.
- 8 And you understand that in Wyeth v. Levine the
- 9 Supreme Court has said the manufacturer is responsible
- 10 for its label; correct?
- 11 Yes. And I don't think FDA would have ever
- 12 disagreed with that. It's that's who is responsible.
- 13 They're also responsible to comply with the labeling
- 14 requirements of the Food, Drug and Cosmetic Act. But it
- 15 is their label. They're -- you know, I think I've said
- 16 in testimony that the buck stops with the company when
- 17 it comes to the label.
- 18
  - Uh-huh.
- 19 MR. JONES: I have 12:26. Do you want to go for 20 lunch now?
- 21 MR. SCHMIDT: Sure.
  - MR. JONES: I mean, this is a good breaking
- 23 point.

22

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- 24 MR. SCHMIDT: Sure.
  - MR. JONES: All right. Let's go off for lunch.

34 (Pages 130 to 133)

	Page 134		Page 136
1	VIDEO OPERATOR: We are going off the record.	1	which other than the morning-after pill, I'm not sure
2	The time is 12:26.	2	if I remember any other specific. But I know that they
3	(Luncheon recess, 12:26-1:21 p.m.)	3	have been developing contraceptives for many years.
4	AFTERNOON SESSION	4	Q. And did you review the Mirena IND before
5	VIDEO OPERATOR: We are back on the record.	5	preparing your report in this case?
6	The time is 1:21 p.m.	6	A. I did review selected summary documents that
7	BY MR. JONES:	7	described the IND and the early development when I
8	Q. Dr. Feigal, welcome back. I hope you had a nice	8	prepared my first report for Mirena last year.
9	lunch.	9	Q. How many pages is that IND?
10	A. Yes. Thank you.	10	A. I don't know.
11	Q. FDA regulations have the same binding force as	11	Q. You reviewed the summary reports contained
12	the law itself; correct?	12	within the IND?
13	A. Generally speaking, yes, that's true.	13	A. No. What I reviewed is some of the key
14	Q. Okay. And failure of a product to meet these	14	documents from the NDA which describe the entire IND
15	standards is a violation of the law; correct?	15	process and the studies that were conducted under that
16	A. It can be, yes.	16	IND.
17	Q. And do you agree that not all adverse effects	17	Q. Okay. So you did not review the actual IND?
18	can be anticipated during clinical trials?	18	A. I don't recall if I had access to the actual
19	A. Yes.	19	IND, but I had the descriptions at the time of the
20	Q. Let's talk about, what's an Investigational New	20	approval of the product in the NDA documents.
21	Drug Application?	21	Q. Okay. And what is an NDA?
22	A. That is an application for FDA to seek	22	A. NDA is a New Drug Application. So that's an
23	permission to conduct studies in humans for a drug which	23	application if it's an initial IND for the first
24	is not approved for marketing in the United States.	24	authorization to market a drug in the United States.
25	Q. And was there an IND submitted for Mirena?	25	Q. Okay. And it's the drug product's sponsor that
	Page 135		Page 137
1	A. Yes, there was.	1	submits to FDA an NDA containing the data that it has
2	Q. And who submitted the IND for Mirena?	2	gathered on the product's safety and effectiveness; is
3	A. You won't mind if I refer to my report.	3	that correct?
4	But the initial IND was filed in 1983 by the	4	A. Yes, that's part of what's in an NDA.
5	Population Council, which is a non-profit organization	5	Q. What else is in an NDA?
6	that has developed some contraceptives over the years.	6	A. Well, there are extensive records about the
7	Q. What do you know about the Population Council	7	manufacturing, there are animal studies that are used
8	other than that?	8	for a variety of different kinds of purposes, there are
9	A. I've had a little bit of contact with them over	9	summaries of the clinical trials individually both with
10	the years. I co-served as the head of an antimicrobial	10	respect to the effectiveness and the safety of the
11	contraceptive task force with someone from the	11	product.
12	Population Council when I was in anti-viral drugs, but	12	The various sections are organized into
13	my understanding is it's a non-profit organization that	13	organized and described in different summaries, the
14 15	helps develop contraceptive alternatives for women.  Q. Who have you worked with from the Population	14	important ones for safety and effectiveness or the
16	Q. Who have you worked with from the Population Council?	15	Integrated Summary of Safety and the Integrated Summary
17	A. You know, I've forgotten his name over the	16 17	of Effectiveness.  And then the NDA also contains listings of the
18	years.	18	original data that the patient, or if it's an animal
19	Q. Did you are you aware that the Population	19	study at the animal level, and often contains and
20	Council developed the Norplant implant device?	20	today always contains data sets of that data for the FDA
21	A. I may have known that. I don't recall if I knew	21	statisticians to evaluate.
22	that or not.	22	Q. That sounds like a lot of data.
		""	~
23	Q. Did you know that the Population Council had	2.3	A. They are. They're big applications.
23 24	Q. Did you know that the Population Council had developed the copper IUD ParaGard?	23 24	<ul><li>A. They are. They're big applications.</li><li>Q. Okay. And did you review the NDA for Mirena?</li></ul>

A. I reviewed some of the summary documents that

25

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A. No. I may have known that. I don't remember

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	Page 138		Page 140
1	described the relevant portions of the NDA for my	1	FDA; correct?
2	opinions.	2	A. Yes.
3	Q. Other than the summary documents, did you review	3	Q. And I think you described it in your report as a
4	the rest of the NDA?	4	negotiation; is that correct?
5	A. All of the different sections? No, I did not.	5	A. I may have used that word. It's you know,
6	Q. Do you know how many pages the Mirena NDA was?	6	"discussion" is also a good word.
7	A. I do not.	7	A label consists of a concise summary of
8	Q. Do you know how many volumes the Mirena NDA was?	8	scientific evidence, and there is some discussion
9	A. No, not sitting here, I don't.	9	between the manufacturer and the FDA on the best way to
10	Q. Do you can you approximate how many pages	10	summarize the information that's available.
11	would comprise the original Mirena NDA?	11	Q. But you used the word "negotiation" in your
12	A. No, I really don't have a way to do that because	12	report; right?
13	I don't know the types of individual data that the	13	A. I don't recall if I did. But it's but I
14	bulkiest part of the NDAs are the so-called raw data,	14	would agree that it's not negotiation in the business
15	the individual data, but at this time period, in 2000,	15	sense of trading this for that, it's really more of a
16	it still wouldn't have contained all of the case reports	16	discussion of trying to develop a consensus, a consensus
17	for them. So I just don't have enough information to be	17	on what is an adequate description, what is an adequate
18	able to estimate what you know, what how many	18	summary of the scientific evidence on which the approval
19	volumes or the size of the application.	19	is based.
20	Q. Do you agree that the ultimate purpose of the	20	Q. Now, you say in your report at Page 5 that Phase
21	review of the preclinical and clinical data contained	21	1 trials are small, closely monitored studies, usually
22	within the NDA is for FDA to review and ultimately	22	in normal volunteers, to learn how a drug is absorbed
23	approve the product with a label that provides adequate	23	and eliminated from the body and to determine doses for
24	instructions for the safe and effective use of the drug	24	further testing; is that correct?
25	for the purposes indicated?	25	A. Yes.
	Page 139		Page 141
1	Page 139  A. Long, long question.	1	Page 141  Q. Okay. And you say, typically, fewer than a
1 2	A. Long, long question.  Generally speaking, that is correct. There's a	1 2	
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- 1 how many subjects were involved in Mirena Phase 2
- 2 trials?
- 3 A. No, I didn't break it out that way. I think
- 4 what I summarized is that the application contained 20
- 5 clinical trials and was based on total study of 3,021
- 6 patients.
- 7 Q. Okay. And then you say that the purpose of
- Phase 3 trials is to study the safety and effectiveness
- 9 of the drug for one or more indications; correct?
- 10 A. Yes, that's correct.
- Q. And what indication was studied in the Mirena
- 12 Phase 3 trials?
- 13 A. It was its indication as a contraceptive, to
- 14 prevent pregnancy.
- 15 Q. It was not studied at that time for heavy
- 16 menstrual bleeding?
- 17 A. Eventually, that is another indication that was
- sought. I don't recall the timing. As I recall, that
- was an indication which was obtained later.
- Q. Okay. And just so we're clear, so at the time
- 21 Mirena was approved it was approved for contraception,
- 22 not for the treatment of heavy menstrual bleeding;
- 23 correct?
- A. I believe that's correct. I might need to
- 25 review the history. I focused on the initial approval

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- 1 evaluation at the time of the NDA approval would also
- 2 include evaluation of the marketing safety experience in
- 3 Europe, for example, as well.
  - Q. And how many subjects did you say were
- 5 participants in the Mirena pre-approval trials?
- 6 A. The safety -- the FDA's Integrated Summary or
- 7 the company's Integrated Summary of Safety described
- 8 safety based on 3,021 women in 20 clinical trials, 2,899
- 9 for women from contraceptive studies, with the remainder
- being for studies of menorrhagia or endometrial
- 11 protection.
- Q. And are you sure that that 3,021 number doesn't
- come from the pivotal trials versus the 20 trials that
- 14 you've discussed a moment ago?
- 15 A. Yes. I describe -- in my report in the section
  - on effectiveness I describe the pivotal trials, and the
- summary of effectiveness describes 17 trials of the 20
- and they also described that the trials included 1,594
- women from qualified sites, sites which where the
- 20 clinical trial standards met the same standards that a
- 21 U.S. study would meet.
- Q. Mirena is indicated for usage for a five-year
- 23 period; correct?
- 24 A. Yes.
- Q. And how many of these 3,021 women were studied

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- and not on the subsequent approvals in my report.
- 2 Q. And did you say something about you thought
- 3 there were about 20 trials that preceded the Mirena
- 4 approval?
- 5 A. Yes.
- 6 Q. Then you mentioned something about pivotal
- 7 trials?
- 8 A. Yes
- 9 Q. And what are pivotal trials?
- 10 A. Pivotal trials are usually the subset of trials
- that form the basis for the evidence of effectiveness.
- Safety is based on all the clinical trials but
- effectiveness usually relies on one or more clinical
- trials, Phase 3 clinical trials, that demonstrates
- 15 effectiveness.
- 16 Q. So if I'm understanding you correctly, the
- safety of the product and the warnings that are
- 18 ultimately included in the product's labeling are
- determined from the company's experience in the 20
- 20 clinical trials that preceded approval.
- 21 A. Yes. It would be their experience in -- it
- would be their entire -- the safety would be based on
- their entire body of studies.
- Since this was a product that was marketed
- outside the United States, it would also -- the safety

- for a full five years?
- 2 A. I'm not sure I noted that in my report, except
- 3 for effectiveness. Among the effectiveness patients,
- 4 there were 633 women of the 1,594 that completed five
- 5 years of study.
- 6 Q. So this five-year product was approved based
- 7 upon a study containing only 633 women who used the
- 8 product for five years; is that correct?
- 9 A. Yes, that's correct. It was a study of, you
- know, close to 1,600 women but only 633 had used the
- 11 product for five years.
- Q. How many used the product for just one year or
- 13 less?
- 14 A. I didn't break that out in my report. I would
- have to go back to the document to look that up.
- 16 Q. How many were -- of these women used the product
- for two years or less?
- 18 A. Again, I didn't look -- I didn't break that out.
- 19 I presented representative summary statistics of, you
- 20 know, the description of the effectiveness. So that
- 21 information I'm certain would be in the reports but I'd
- have to go back to the reports to look for that
- 23 information.
- Q. What reports are you talking about?
- A. Well, the source I relied on is the Integrated

37 (Pages 142 to 145)

# Page 146 Summary of Safety, which summarizes all of the studies,

- 2 rather than trying to compile the data from the
- 3 individual studies myself.
- 4 Q. How many of these women were studied in the
- 5 United States?

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- 6 A. As I understand it, the majority of them were
- 7 not, that these were the studies that had been conducted
- 8 in Europe, where it was first approved.
- 9 Q. How many of these women -- strike that.

10 Are you aware that certain study data was 11 excluded from full analysis because the studies were 12 conducted at unqualified sites?

- 12 conducted at unqualified sites?13 A. Yes. I mean, I described the fact that the
- pivotal trials were based on qualified sites that met
- certain criteria, that met U.S. standards. There were
- other sites that, for different reasons, were not
- considered, were not relied on for the effectiveness
- because, one reason or another, that they didn't meet
- 19 U.S. standard for trials.
- Q. Do you believe a pharmaceutical product should
- be approved based upon less-than-perfect data?
- 22 A. Well, I think you always have less-than-perfect
- data. It's a matter of judgment as to whether or not
- the data is adequate to describe the effectiveness.
- 25 And the criteria for whether a site was

### Page 148

A. Yes

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- Q. And I want to refer you to the E-mail towards
- 3 the bottom from Dr. Bettina Fiedler.
  - And this E-mail is talking about getting
- 5 approval in another country. And Miss Fiedler, can you
- 6 read what she says starting at "However" there in the
- 7 middle of the paragraph?
- 8 A. However, you should be aware that the Berlex
- 9 regulatory affairs is currently going through a major
- 10 reorganization.
- Q. All right. No. The other "however" above that.
- Here. You can see on the ELMO.
- A. Oh, up there. I'm sorry. There are several
- 14 howevers on this page.
- 15 O. Yeah

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- A. However, with regard to the U.S. submission of
- Mirena, you should be aware of one big difference to
- 18 your situation in Japan. The FDA is highly interested
- in getting the product onto the U.S. market, therefore,
- 20 they worked intensively with Berlex and Leiras to be
- able to accept data that were not always so perfect.
- 22 Q. Keep going
  - A. So the Berlex approach of the submission may not
- 24 be so helpful to you because it was based on some
- goodwill from the authority, which I'm afraid the

#### Page 147

- qualified or not, as I understand it, was criteria that
- 2 FDA worked out with the company.
- Q. Does goodwill with the regulators ever come into
  - play in the product approval process?

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- 5 A. Well, I mean, I think companies do strive to
- 6 have a good relationship with FDA but I don't think FDA
- 7 tries to factor in whether there is goodwill or some
- 8 other kind of ill will with a company. They try and
- 9 look objectively at the information that's in the 10 application.
- Q. Do friendships between government regulators and pharmaceutical companies develop from time to time?
- 13 MR. SCHMIDT: Objection. Vague.
- THE WITNESS: I mean, there's a lot of people
- in -- on both sides of the table. I'm certain that
- there probably are friendships and that there are many
- 17 relationships who are -- they're cordial working18 relationships.
- 19 (Exhibit Feigal-6 was marked for 20 identification.)
- MR. SCHMIDT: What number are we at?
- 22 THE COURT REPORTER: Six.
- 23 BY MR. JONES:
- 24 Q. Dr. Feigal, I've handed you an E-mail that we're
- 25 marking as Deposition Number 6.

MHLW -- that's the Japanese FDA -- may not have towards

Page 149

- 2 a fertility-control product.
- Q. Okay. Did you know, based upon your review of
- 4 the documents that you were provided in this case, that
- 5 the FDA was highly interested in getting the product
  - onto the market in the U.S.?
- 7 A. Well, this isn't the FDA speaking, but FDA, in
- 8 general, is highly interested in seeing that new, safe
- 9 and effective products come on the market. It's not an
- 10 adversarial relationship.
- 11 Q. Did you know from your review of the documents
- that you were provided in this case that Bayer felt that
- the FDA had worked intensively with Berlex and Leiras to
- be able to accept the data that were not always so
- perfect? Did you know that?
- 16 A. Well, I was aware of the fact that FDA carefully
- developed criteria for identifying clinical trials where
  - the sites met the U.S. standard and then didn't consider
- 19 the other sites' data for effectiveness, and so I
- 20 imagine that was a process where they had to work
- 21 closely together and intensely to see if there was
- something that -- in those trials that could be used for
- 23 an approval decision.
- Q. Do you agree that the data submitted for the
  - approval of the Mirena product were not always so

38 (Pages 146 to 149)

Page 150 Page 152 1 -- according to Miss Fiedler. perfect? 2 A. I don't know what this person meant, but if it's 2 Well, I don't know what she means by goodwill, 3 simply commenting on the fact that some of the sites, 3 but you can see that FDA did work with the company to 4 4 looking back over studies done over the past ten years, identify the subset of studies that they wished to 5 5 consider that they considered met FDA standards for didn't meet the standards for clinical trials at the 6 6 adequate and well-controlled trials to be the basis for time of the approval, it may simply be referring to the 7 7 fact that there would be sites that would be relied on the effectiveness. 8 8 and other sites which wouldn't be considered for And just to be clear, you've never seen this 9 effectiveness. 9 document before today; correct? 10 10 Did you know, based upon your review of the Not that I recall. 11 It's not something that Bayer's lawyers provided 11 documents provided to you, that Bayer felt that the Q. 12 to you; correct? 12 approval of Mirena was based on some goodwill from the 13 13 A. If they do, I don't recall having seen it. authority, meaning the FDA? 14 14 I'm -- I don't think it was based on goodwill. MR. JONES: And just for the record, we'll note 15 15 that that's Bates numbered MIR PSEU 00546368. I think it was based on the evidence, which is well laid 16 BY MR. JONES: 16 out in the summary documents. 17 Down towards the bottom of Page 6 of your report 17 I think the author here is commenting on the 18 18 country differences. As I understand, Japan has been you say, FDA employs a number of resources in reviewing 19 19 very reluctant to approve hormonal contraceptives, and the NDA data, including a team of physicians and other 20 condoms are the major form of contraception in Japan, 20 scientists who are experts in their respective fields. 21 21 unlike this country. This team prepares detailed reports in their area of 22 22 expertise based on their findings. So I think they're commenting on the fact that 23 23 the environment is different, going to a regulatory body Are these the summary reports that you've 24 24 that approves hormonal contraceptives in many different mentioned you reviewed earlier? 25 25 No. The documents that I'm -- the ISS and the forms compared to a country that relies on barrier Page 151 Page 153 1 contraceptive methods. 1 ISE are actually the company documents. 2 2 So are you disagreeing with Bettina Fiedler, the FDA has reviews of those documents, and I read 3 global regulatory affairs employee for the company, when 3 those as well, but I -- for the description of what was 4 he or she says that the approval was based on some 4 in the ANDA, I took that from the company's summaries. 5 5 goodwill from the authority? Okay. It says, these reviews and reports may 6 6 MR. SCHMIDT: Object to characterization, contain conclusions and recommendations of the 7 7 individual reviewers at the time they are written but do 8 8 THE WITNESS: Well, I think she's describing -not necessarily represent the final FDA position; is 9 I mean, I don't know what she meant. I don't. I don't 9 that correct? 10 know what she meant by that, but what she's describing 10 A. Yes, that's correct. 11 is the fact that there was data that wasn't relied on. 11 Your next sentence you say, during the review 12 12 That's the data that's less than perfect. That's part process, FDA has complete access to all of the data from 13 of the record of the approval process. 13 the studies in the NDA either as submitted at the time 14 14 If that's what she means by goodwill, then I of filing or per FDA's request to the NDA applicant. 15 would agree that FDA was willing to accept historical 15 Did I read that correctly? 16 studies and to identify the subset of studies that met 16 A. Yes. 17 FDA's current standards. 17 Do you know, based upon your review of the 18 18 documents in this case, whether FDA had complete access FDA could have taken a hard position and just 19 said, do the studies, do new studies and start over, but 19 to all of the data from the studies in the NDA or 20 20 they worked with the company to see if there were whether they had requested it at some point? 21 studies that met the standards, found those studies, and 21 Well, there certainly were both. I think that I 22 made a decision based on them. 22 described that during the NDA, the company submitted 41 23 BY MR. JONES: 23 supplements. 24 24 So supplements typically contain additional Based upon some goodwill from the authority --

39 (Pages 150 to 153)

information or analyses or data that FDA requests. So

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No. I don't think --

- 1 there's, you know, evidence that it was a very
- 2 interactive process, that FDA used not only the NDA but
- 3 requested additional information and it was submitted 41
- 4 different times.
- 5 Q. Did FDA have access to the case reporting forms
- 6 from the studies that were listed in the NDA?
- 7 A. I would -- I don't know. I don't know directly
- 8 which case reports. There are always some case reports
- 9 that are included but I don't know if this application
- 10 had all case reports.
- Q. And when I say "case reports," I'm talking about
- 12 the case report forms.
- You know what that is; right?
- 14 A. Yes. Right. The raw data from the
- 15 individual --
- 16 Q. Right.
- 17 A. -- trial participants. Yes.
- 18 Q. Does FDA engage in a risk/benefit assessment
- during its new drug approval process?
- 20 A. Yes
- 21 Q. Okay. And I believe you said that this
- 22 risk/benefit assessment is conducted with every FDA
- approved on the market and is a crucial element of the
- 24 drug approval process; is that correct?
- 25 A. Yes.

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- the Copper T was actually on the market in the 1970s.
- Q. And the Mirena, that's a hormonal IUD; right?
- 3 A. That's correct.
- 4 Q. And it releases a potent synthetic progestin
- 5 called levonorgestrel; correct?
- 6 A. That's correct.
- 7 Q. And do you agree that there is systemic
- 8 circulation of levonorgestrel in Mirena users?
- 9 A. Yes.
- 10 Q. And you agree that Mirena users experience
- 11 systemic hormonal effects as a result of their use of
- the IUD; correct?
  - MR. SCHMIDT: Objection. Characterization.
- 14 THE WITNESS: They can. There may be systemic
- 15 effects. It does circulate systemically, yes.
- 16 BY MR. JONES:
- Q. This process of the risk/benefit assessment,
- that continues to occur throughout the life of the drug;
- 19 correct?

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- 20 A. Yes, that's correct.
- 21 Q. As the company receives reports of adverse
- 22 effects, they are to continue balancing the risks versus
- 23 the benefits; correct?
- 24 A. Yes, that's correct.
- Q. And do you agree that once a drug is on the

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- 1 Q. And so we're talking about Mirena, a
- 2 contraceptive; right?
- 3 A. Yes
- 4 Q. Okay. Were there other contraceptives on the
- 5 market at the time Mirena was approved?
- 6 A. Yes.
- 7 Q. There were oral contraceptives; right?
- 8 A. Yes
- 9 Q. Norplant was still on the market in the U.S. at
- 10 that time; correct?
- 11 MR. SCHMIDT: Bless you.
- 12 THE WITNESS: I don't recall the year Norplant
- 13 was withdrawn but --
- 14 BY MR. JONES:
- 15 Q. If you don't know, that's fine.
- 16 A. Yeah
- Q. ParaGard, the copper IUD, that was on the market
- 18 at the time; right?
- 19 A. There were copper IUDs on the market at the
- 20 time, ves.
- Q. Copper IUDs have been on the market in the U.S.
- since the 1980s; right?
- 23 A. Yes
- Q. And a copper IUD is a non-hormonal IUD; right?
- 25 A. That's correct. I think there were -- I think

market, the number of patients who take the drug expands

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- 2 from a few hundred or a few thousand patients in the
- 3 clinical trials to tens of thousands or even millions of
- 4 patients who are prescribed the drug?
- 5 A. Yes. I think I've written that or something
  - similar to it in my report.
- 7 Q. I think that's straight from your report.
  - And do you -- I think we talked earlier about
- 9 all adverse effects can't be expected to be picked up in
- 10 pre-approval trials; correct?
- 11 A. That's correct.
- 12 Q. Okay. And so isn't it true that there's a
- period of time as a drug develops more users and more
- usage that new adverse effects may come to the attention
- of the manufacturer?
- 16 A. Yes, that's correct.
- Q. And those manufacturers are supposed to receive
- that information and determine whether or not an update
- 19 to their label is necessary; correct?
- 20 A. Yes, that's correct.
- Q. And at all times while their product is on the
- 22 market, a drug manufacturer is responsible ultimately
- 23 for its label; correct?
- 24 A. That is correct.
- Q. And when you're talking about premarket studies,

40 (Pages 154 to 157)

Page 158 Page 160 1 isn't it true that this testing is conducted in a 1 A. Yes, it does. 2 limited number of patients; correct? 2 O. Patients? 3 Well, relative to the eventual use, that is 3 Patients? Yes. It -- patients do directly 4 correct. Sometimes it's a very large number of 4 report both to the company and to the FDA. 5 5 patients, but compared to the use once the product is Okay. The name Foreign Adverse Experience 6 approved, it is limited, yes. 6 Reports, are those part of the post-marketing 7 7 Okay. And these premarket studies are conducted surveillance? 8 on a population that's relatively healthy; correct? 8 Yes. The company is responsible for analyzing 9 MR. SCHMIDT: Object to characterization. 9 all of those. The FDA actually identifies which types 10 10 THE WITNESS: Generally speaking. Not always. of foreign information it would like to have submitted 11 11 But for a product to be used by healthy people, it and in different settings. So there are slightly 12 12 certainly would be conducted in healthy people, yes. different rules for foreign reports than U.S. reports BY MR. JONES: 13 13 but the company's responsibility is to know about it all 14 Well, isn't it true that many of these studies 14 and then there's rules about which ones get submitted to 15 actually have exclusion factors where they keep people 15 FDA and how. 16 16 out that have certain health conditions? They're supposed to know about all of the 17 17 Yes, that's correct. information that's out there? 18 18 And they have inclusion factors where they bring No matter how they learn of it, the company is 19 in individuals to study that they would like to study in 19 responsible to know about the safety information for 20 a product; correct? 20 their product, whether it's from patients, foreign, from 21 21 Yes, that's generally true. It varies from health-care providers or even from lawsuits. 22 product to product and who the target users are. But it 22 Right. Clinical trials? 23 23 is true that the studies try to remove some of the From clinical trials. A. 24 24 sources of variation, variability, such as patients who Information from the medical literature? O. 25 25 have other conditions going on that complicate the Page 159 Page 161 1 interpretation of the studies. 1 You mentioned lawyers and lawsuits; right? O. 2 Q. Do you know what percentage of women studied in 2 A. Yes. 3 the premarket studies for Mirena would be classified as 3 And is -- do you put less credence in a report 4 overweight or obese? 4 of an adverse event that is learned from a lawyer versus 5 5 I don't think I know that. I don't think I know 6 6 No. The credence of the report should be based that number. 7 7 Would you agree that it's a relatively small on the content of the report, not who reported it. 8 8 So there are reports that are incomplete and percentage of the women studied? 9 MR. SCHMIDT: Objection. Foundation. 9 difficult to interpret that come from lawyers and ones 10 THE WITNESS: I don't think I know one way or 10 that come from doctors and so forth. So you judge each 11 the other. It depends on the setting where the studies 11 report in terms of what you know about it. 12 There may be limitations in getting follow-up 12 are being conducted, and rates of obesity vary in 13 13 different populations and different ages and with information when there's lawsuits involved but --14 compared to a report from a patient or a doctor but the 14 socioeconomic status, so I just don't know one way or 15 the other. 15 credibility of the report depends on the quality of the 16 BY MR. JONES: 16 report. 17 Well, as it relates to lawyers and the 17 What is post-marketing surveillance? follow-up, isn't it true that it might actually result 18 18 It's a required activity of companies with 19 in more information because the lawyers can provide 19 products on the market, where they collect information 20 copies of their client's medical records? 20 about the reports of potential adverse reactions and 21 21 look for other ways that -- to identify safety It can. It -- the way that the privacy laws 22 22 allow post-market surveillance where the patient doesn't information. 23 give their consent to have their medical history shared 23 And this information includes spontaneous 24 with a drug company, which I think would surprise a 24 reports from -- of individual cases from health-care 25 certain number of patients, but the context for that is 25 practitioners; right?

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- that the company may seek follow-up from the party that reports the problem but they are not allowed to contact
- anybody else who they may know of who might have more
- 4 information. They always have to work with the
- 5 reporter.

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- So it will -- reporters vary, no matter who they are, in terms of their ability or willingness to provide additional information.
- Q. Can the FDA ask the individual reporter for
   permission to contact his or her health-care providers?
  - A. Well, could they is an interesting question.

12 It's not part of the practice because the
13 privacy laws, which are, have the nickname of HIPAA,
14 actually have a very specific description of how you can
15 get information for a post-market report and it limits
16 it to seeking information from the reporter.

I think that FDA or the company can always request that a reporter could ask other people to contact FDA and to become a reporter themselves but there are certain rules about how this is done.

And then other countries have rules, some of them even much stricter than the U.S., about privacy. In some countries, doctors are not allowed to actually report to the companies, they have to report to the government. So it just varies on who the report is

#### Page 164

- 1 for more information in post-market surveillance.
  - Q. Could a pharmaceutical company ask a patient for
- a HIPAA release to talk to his or her other doctors?
- 4 A. That's probably a legal question that I just, I
- 5 don't know the -- I don't know the answer.
- 6 One, I don't offer legal opinions as an expert.
- 7 But I think that's a legal issue around what is
- 8 permissible and whether or not that would be something
- 9 that's trying to subvert the privacy balance that's
- 10 built into HIPAA.
- 11 Q. Maybe that would be a good topic for your food
- 12 and drug law class.
- 13 A. It is an interesting topic.
- Q. Serious and unexpected adverse events must be
- reported within 15 days of receipt by the manufacturer;
- 16 correct?
- 17 A. That's correct.
- Q. And those are known commonly as 15-day reports?
- 19 A. Yes
- Q. And do you agree that the purpose of spontaneous
- 21 reporting systems is to detect a signal of a previously
- 22 unknown potential association between an adverse effect
- and a drug?
- 24 A. Yes.

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Q. And beyond examining individual spontaneous

### Page 163

- 1 from, the circumstances.
- 2 Q. With all due respect because you worked at the
- 3 FDA, that seems silly to me. It seems like it ties the
- 4 FDA's hands a little bit.
- 5 Is that a fair characterization?
- 6 A. Well --
- 7 MR. SCHMIDT: Object to form.
- 8 THE WITNESS: No, I don't think so. I think
- 9 that -- I think what it is is it -- and, you know, it's
- not part of the -- it's not part of FDA's law, it's part
- of HIPAA, it's part of the health privacy laws that are
- part of HIPAA, is that it balances the public health
- 13 need for reports with the patient's need for privacy.
- 14 BY MR. JONES:
- 15 Q. Now, a pharmaceutical company, when they receive
- a report from a consumer, are they also limited only to
- talking with the consumer about the report?
- 18 A. No. To the reporter. So if it's a consumer,
- they can talk to the patient, if that's the reporter.
- 20 Q. Right.
- A. If it's a doctor, they can only talk to that
- doctor and they can only request additional information
- from that doctor. And that doctor has no limitations on
- 24 what they can provide, it's just they have to -- they're
- 25 the only person the company, under the rules, can ask

- Page 165
- 2 studies, research on the pathophysiology of the adverse

reports, signal evaluation may include epidemiological

- 3 reaction and, where feasible, clinical trials; correct?
- 4 A. Yes, those are all things you can do. Yes.
- 5 Q. And another important source of safety
  - information comes from clinical trials and other studies
- 7 conducted after the initial market approval; correct?
  - Yes, that's correct.
- 9 Q. And even Phase 4 studies or post-marketing
- 10 commitments.
- 11 A. Yes, that's correct.
- Q. Now, in addition to clinical trials, there may
- also be publications of individual patients or series of
- patients thought to have had adverse experiences from a
- drug or from related drugs; correct?
- 16 A. Yes, that's correct.
- 17 Q. And do you agree that it's well known and
  - understood that additional information about the
- benefits and risks of medicines will become available
- after they're approved and that the evaluation of that
- 21 information is an ongoing process?
- 22 A. Yes
- Q. Now, you talk about hierarchy of evidence, of
- scientific evidence; right?
- 25 A. Yes.

42 (Pages 162 to 165)

Page 166 Page 168 1 MR. SCHMIDT: Object to characterization. 1 There is a recognized hierarchy of scientific 2 evidence relevant to the assessment of drug safety; 2 THE WITNESS: The downloadable forms are 3 right? 3 deconstructed, if you will. You have to put it back 4 4 together yourself. And they're very large and they're A. Yes. 5 5 Q. And while it may be at the bottom, spontaneous cumbersome and it's challenging to set it up right to 6 reports are part of that hierarchy of evidence; correct? 6 get the information that you want. But it is relatively 7 7 Yes, they play a role, particularly in providing straightforward but there's -- it's tedious, at best. 8 a signal and identifying a safety, potential safety 8 MR. JONES: Yeah. I actually, point of 9 issue that needs follow-up. 9 interest, I had a -- I hired a software developer to 10 10 And would you agree that infrequent or rare build me a database --THE WITNESS: Uh-huh. 11 adverse reactions are often described initially by 11 12 individual case reports either reported to the company 12 MR. JONES: -- so I could look at it. 13 or FDA or published in medical literature as a case 13 THE WITNESS: Yeah. Well, you know firsthand 14 14 that the definitions change for the fields, the fields series after the product enters the market? 15 Yes, I would agree with that. 15 move --16 And you agree that a PTC is a rare event; 16 MR. JONES: Uh-huh. 17 THE WITNESS: -- and there are other challenges 17 correct? 18 18 A. Yes, it is. 19 Q. Do you agree that, when performed properly, 19 BY MR. JONES: 20 case-control studies are the best method to determine 20 Now, you mentioned that some companies will 21 whether there's an increased risk of infrequent adverse 21 construct their own databases to be able to review the 2.2 22 FDA adverse event information; is that correct? events associated with a drug? 23 23 Yes, when well conducted, when well performed, A. 24 they are one of the better sources of information about 24 Did any of the companies that you worked at have 25 rare events. 25 such a database? Page 167 Page 169 And when both the drug use is infrequent and the 1 No, neither Elan nor Amgen had such a database. 1 2 2 adverse event is rare, the very large Q. Do you know whether Bayer has such a database? 3 pharmacoepidemiology databases may be the only practical 3 4 method to assess the risk; correct? 4 Generally, when you're dealing with your own 5 Yes, that's correct. 5 products, you use your own database, and I don't know if 6 6 And are you aware of private companies that they also -- I didn't see anything that indicated that 7 7 provide access to information from regulatory adverse they had an in-house copy of the AERS, now called FAERS, 8 event databases like FDA and WHO? 8 database. 9 Yes, there are open source, if you will. I'm 9 Do you know if they have a subscription to be 10 not quite sure of the -- who -- the structure of all of 10 able to search through the FDA database? 11 the organizations that provide them, but there are 11 I don't know. 12 12 open-source tools for searching regulatory databases and You mentioned earlier something along the lines 13 adverse experience databases. 13 of a company as part of their post-marketing 14 14 Well, let me make sure that we're talking about surveillance should be looking for anything that's out 15 15 there that relates to the safety of their product. the same thing. 16 I understand that there are companies out there 16 Do you remember talking about that? 17 that will sell subscriptions that a company can buy that 17 18 18 would allow them to, basically, search FDA adverse event Okay. And would that include looking at the 19 data; is that correct? 19 FAERS database? 20 A. It could. It depends on the -- it depends on 2.0 Yes, there are. The FDA makes the data 21 available publicly, you know, on a quarterly basis, and 21 the product and depends on the reporting patterns. 22 22 90 percent of the reports, on average, that are so many companies construct their own databases, but

43 (Pages 166 to 169)

in FAERS have come from the companies who are

responsible for the products. So, generally speaking,

the company databases are pretty complete, plus they

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they may choose to use the services of a contractor.

They don't make it real easy to see the

information, do they?

	Page 170		Page 172
1	have reports which FDA does not request as part of	1	collection of adverse experiences from different
2	FAERS. So the company database is typically larger than	2	regulatory bodies. The FDA reports make up about 60
3	the FAERS database, although there's always something in	3	percent of the reports in the database but the other 40
4	FAERS that may not the company may not have.	4	percent come from other countries.
5	Q. Did you know that in this case that Bayer didn't	5	Q. And what's the name of that database?
6	look at the FAERS database regarding Mirena and PTC	6	A. It's part of the EudraVigilance system. WHO is
7	until 2015?	7	responsible for it. I can't think of the exact name at
8	MR. SCHMIDT: Object to characterization.	8	the moment, but it's the system that's based in Sweden.
9	THE WITNESS: I'm not no, I don't know if I	9	Q. Is it the one from the Uppsala Monitoring
10	know when they first looked at it. No.	10	Centre?
11	BY MR. JONES:	11	A. Yes, it's in Uppsala, Sweden.
12	Q. Did you know that when Bayer looked at the FAERS	12	Q. Okay. Did you say EudraVigilance?
13	database in 2015, that they actually found cases in	13	A. Well, EudraVigilance is one of the descriptions
14	FAERS that were not part of their database?	14	of the European pharmacovigilance databases.
15	A. I don't recall if I knew that, but I would	15	Q. Do you know, does Eudra, is EudraVigilance and
16	expect that to be the case. There would always be a	16	WHO the same data source or does EudraVigilance feed
17	small percentage of reports that went directly to FDA.	17	into WHO? Do you know?
18	Q. Did you know that it was not part of their, of	18	A. My understanding is EudraVigilance feeds into
19	Bayer's pharmacovigilance practices prior to 2015 to	19	WHO, but I'd have to review to see the exact
20	review the FAERS database?	20	relationships. But there is the Swedish database is
21	MR. SCHMIDT: Object to form and foundation.	21	the other large database.
22	THE WITNESS: I don't. No, I don't think I've	22	Q. So is the Swedish database something different
23	seen any company SOPs about what their standard	23	from WHO?
24	practices were.	24	A. No. That's the WHO-sponsored
25	MR. JONES: Yeah, I was going to ask you that.	25	Q. Okay.
	Page 171		Page 173
1	You jumped ahead of me.	1	<ul> <li>A database that has U.S. and other country data</li> </ul>
2	BY MR. JONES:	1	The database that has onst and other country data
		2	in it.
3	Q. Have you reviewed any of Bayer's	2 3	in it. Q. Do you know what other countries report to WHO?
4	Q. Have you reviewed any of Bayer's pharmacovigilance standard operating procedures, or		in it.  Q. Do you know what other countries report to WHO?  A. My understanding is that it it's the next
	Q. Have you reviewed any of Bayer's pharmacovigilance standard operating procedures, or SOPs?	3	in it.  Q. Do you know what other countries report to WHO?  A. My understanding is that it it's the next largest collection come from the European Union. I
4 5 6	<ul><li>Q. Have you reviewed any of Bayer's pharmacovigilance standard operating procedures, or SOPs?</li><li>A. No, I have not. I have reviewed the analyses</li></ul>	3 4	in it.  Q. Do you know what other countries report to WHO?  A. My understanding is that it it's the next largest collection come from the European Union. I don't I'm not sure what the reporting rate is for
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. Have you reviewed any of Bayer's pharmacovigilance standard operating procedures, or SOPs?</li> <li>A. No, I have not. I have reviewed the analyses themselves but not the SOPs.</li> <li>Q. The SOPs weren't provided to you by Bayer's lawyers?</li> <li>A. No. And I didn't request them.</li> <li>Q. When you're evaluating whether or not a pharmacovigilance department interacted appropriately with the FDA, don't you think that it would be important to know what their standard operating procedures are?  MR. SCHMIDT: Object to form.  THE WITNESS: In some circumstances. But I think here I think that the documents of the analyses that they did, by my review, were adequate.</li> <li>BY MR. JONES:</li> <li>Q. Other than the FAERS database from FDA, what other safety databases are available from government</li> </ul>	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	in it.  Q. Do you know what other countries report to WHO?  A. My understanding is that it it's the next largest collection come from the European Union. I don't I'm not sure what the reporting rate is for different countries.  Q. Can you turn to Page 12 of your report.  A. Okay.  Q. Okay. This is this isn't very helpful for me to read it sideways.  A. I have it in front of me if but  Q. This is the this is from Page 12 of your report, the "Hierarchy of Study Design and Evidence For Drug-Associated Adverse Effects."  Did I read that correctly?  A. Yes.  Q. Now, did you make this chart or did you pull this from somewhere?  A. No. I made this chart.  Q. Okay. And "Hierarchy of Designs (Strongest to
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. Have you reviewed any of Bayer's pharmacovigilance standard operating procedures, or SOPs?</li> <li>A. No, I have not. I have reviewed the analyses themselves but not the SOPs.</li> <li>Q. The SOPs weren't provided to you by Bayer's lawyers?</li> <li>A. No. And I didn't request them.</li> <li>Q. When you're evaluating whether or not a pharmacovigilance department interacted appropriately with the FDA, don't you think that it would be important to know what their standard operating procedures are?  MR. SCHMIDT: Object to form.  THE WITNESS: In some circumstances. But I think here I think that the documents of the analyses that they did, by my review, were adequate.</li> <li>BY MR. JONES:</li> <li>Q. Other than the FAERS database from FDA, what</li> </ul>	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	in it.  Q. Do you know what other countries report to WHO?  A. My understanding is that it it's the next largest collection come from the European Union. I don't I'm not sure what the reporting rate is for different countries.  Q. Can you turn to Page 12 of your report.  A. Okay.  Q. Okay. This is this isn't very helpful for me to read it sideways.  A. I have it in front of me if but  Q. This is the this is from Page 12 of your report, the "Hierarchy of Study Design and Evidence For Drug-Associated Adverse Effects."  Did I read that correctly?  A. Yes.  Q. Now, did you make this chart or did you pull this from somewhere?  A. No. I made this chart.

44 (Pages 170 to 173)

prospectively before adverse event?" "Controls for

relative risk or hazard compared to control group?"

selection Bias/and Ascertainment Bias?" "Can estimate

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A. Well, there is a -- there's a European database.

There's actually different names for it. But one of the

databases is maintained in Sweden and it has a

	David William Feigal		.,
	Page 174		Page 176
1	And, "Can study rare events?"	1	A. It may be that you have a circumstance of a very
2	Did I read that correctly?	2	high-risk patient population that you could enroll in
3	A. Yes.	3	the cohort that has a high where the rate becomes
4	Q. Okay. And so it as it relates to pseudotumor	4	common enough that you could study it.
5	cerebri, we've established that's a rare event; right?	5	Q. Okay. Would a how many individuals would it
6	A. Yes.	6	take in a controlled cohort study to study a rare event?
7	Q. Okay. So a randomized, controlled trial is not	7	A. It depends how enriched the population would be
8	going to work to study that rare event; correct?	8	by your by the types of patients that you enrolled.
9	A. That's correct. They just can't be big enough.	9	So if the condition was you know, let's say
10	Q. Okay. And registries or uncontrolled cohort	10	that the clinical trial was 20 times too small but you
11	studies, that's not going to work either; right?	11	could enrich the population in a cohort study to have
12	A. That's correct.	12	the condition occur 20 times more often, then you may
13	Q. Okay. And then you say maybe for controlled	13	well be able to actually study it in that kind of a
14	cohort studies, enroll patients starting a new drug and	14	setting.
15	compare it to similar patients not taking the drug. You	15	Q. And when you say enrich it, you mean enroll
16	say maybe.	16	people that would be more at risk for the adverse event
17	Why maybe on that?	17	that you were studying.
18	A. Well, for registries and other uncontrolled	18	A. Yes. For example, when they're studying heart
19	cohorts, the biggest well, there's two issues, but	19	disease, if you enroll smokers with high blood pressure
20	one of the more important ones is that even for two	20	and high cholesterol, you'll find more you'll see
21	drugs in the same class, the types of patients that are	21	more heart attacks than you would if you just enrolled
22	prescribed one drug versus another may be very	22	all comers taking the drug from the general population.
23	different.	23	Q. Okay. I know from reading your report that you
24	So, for example, you know, relevant to Mirena,	24	believe that obesity overweight and obesity and
25	if there's a condition that's associated with obesity	25	recent weight gain are risk factors for developing PTC;
	Page 175		Page 177
1	and there's recommendations to use IUDs in obese women,	1	right?
2	then even if you put together a cohort of, say, oral	2	A. Yes.
3	contraceptive users and Mirena users, you would have	3	Q. Okay. So let's use that example and focus on
4	you wouldn't have controlled the selection bias. The	4	the second category here.
5	patients would have been selected for a risk factor for	5	A. Yes.
6	a condition.	6	Q. You agree that not everyone who is overweight or
7	So there are ways that you can, with registries	7	obese develops PTC; correct?
8	that you can try and match participants with one	8	A. That's right. It's still relatively rare. It's
9	exposure to another but it's not done very often. Those	9	20 times more common than non-obese but 20 times rare is
10	are called case cohort studies.	10	still rare.
11	So, generally speaking, you can't really control	11	Q. Yeah. We'll talk about those numbers in a bit
12	why the patient got the drug.	12	but
13	Q. I think you've been talking about registries and	13	So from a percentage-wise, how many what
14	other controlled cohort studies; right?	14	percent of overweight or obese women ultimately end up
15	A. Oh, okay. Where were you?	15	developing PTC?
16	Q. Yeah. See, look up I'm up here on the	16	A. Oh, from a percentage it's still well, well

Q. Right. So for purposes of studying PTC and obesity, the controlled cohort study that you say maybe

under -- I mean, if the rate is one in a hundred

thousand for non-obese, approximately, or two in a

as high as 20 per hundred thousand, but that's still

have to enroll to find PTC in cases.

hundred thousand, it's -- you know, we can discuss what

the correct number would be but, you know, it could be

pretty rare when you talk about how many patients you'd

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screen.

Oh, okay.

studies. You said maybe --

-- on can study rare events.

Oh, yeah.

Why maybe?

Yeah.

You had "no" there so you can't --

I was up above that, the controlled cohort

can be used to study an adverse event or a rare adverse event, it's not really practical.  2 event, it's not really practical.  3 A. It doesn't work here, no. That's right.  4 Q. Okay.  5 A. That's right.  6 Q. And so then the  MR. JONES: How much time do we have left?  WIDEO OPERATOR: Two minutes.  9 WILL OPERATOR: Two minutes.  11 THE WITNESS: All right.  12 MR. JONES: Idon't think we can get through the next one in two minutes.  13 THE WITNESS: Sull right.  14 MR. JONES: So let's take a break.  15 THE WITNESS: So, let's take a break.  16 THE WITNESS: So, let's take a break.  17 This is the end of Media Number 2, and the time is \$2.24 \ p.m.  18 Keess. 224-24 J p.m.  19 (Recess. 224-24 J p.m.)  10 (Recess. 224-24 J p.m.)  21 We are back on the record at 2.41 p.m.  22 We are back on the record at 2.41 p.m.  23 BY MR. JONES:  24 Q. D. Feigal, we're back from break with a new videotape.  25 videotape.  Page 179  1 Lef's go back up to the controlled cohort study without advising promoteries of the study perspective by follow Mirena patients to see if they developed III.  3 Q. And you couldn't ethically purity individuals in a prospective controlled cohort study without advising them that you were studying the risk of peacotomor cerebri and whether or not they would develop it; controct?  3 A. Sure.  4 Q. D. Feigal, we're back from break with a new videotomor cerebri and whether or not they would develop it; correct?  4 Q. D. Feigal, we're back more they ould develop it; correct?  5 A. Right. And a cohort study without advising them that you were studying the risk of peacotomor cerebri and whether or not they would develop it; correct?  4 Q. Intak would be a prospective by follow Mirena patients to see if they developed III.  5 Q. And you couldn't ethically purity individuals in a prospective controlled cohort study without advising them they are a search purpose, the research purpose, for research purpose, for research purpose, for research purpose, the research purpose, for research purpose, for research purp		Page 178		Page 180
2 event, if s not really practical. 3 A. It doesn't work here, no. That's right. 4 Q. Okay. 4 A. Yes. 5 A. That's right. 6 Q. And so then the 7 MR. JONES: How much time do we have left? 7 WIDEO OPERATOR: Two minutes. 9 MR. JONES: I don't think we can get through the next one in two minutes. 10 next one in two minutes. 11 THE WITNESS: All right. 12 MR. JONES: So left sake a break. 13 THE WITNESS: So left sake a break. 14 MR. JONES: So left sake a break. 15 THE WITNESS: So left sake a break. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time is is 224 pm. 19 (Recess, 224-241 pm.) 19 (Recess, 224-241 pm.) 20 VIDEO OPERATOR: This is the beginning of Media Number 3. 21 We are back on the record at 2-41 pm. 22 We are back on the record at 2-41 pm. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new videotape.  25 We are back up to the controlled cohort studies that we were talking about, the second box. 26 A. Sure. 27 Q. That would be a prospective study, childred whether or not they would develop it; corbort? 28 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed III. 28 Q. And you couldn't chically put individuals in a prospective controlled cohort study without advising them that you were studying the risk of pseudatumor the methat you were studying the risk of pseudatumor the methat you were studying the risk of pseudatumor the methat you were studying the risk of pseudatumor of the enth to you were studying the risk of pseudatumor of the enth to you were studying the risk of pseudatumor of the enth you will develop it; correct? 20 A. I think you could do them prospectively but the only studies that are feasible are retrospective study, ethically, correct? 21 and PIC, you don't have a choice but to do a prospective study, ethically, correct? 22 a truth is an advised to the controls as as contained and PIC, you don't have a choice but to do a prospective study, ethically,	1	can be used to study an adverse event or a rare adverse	1	had an adverse effect and compare similar patients
4 A. Yes. 5 A. That's right. 6 Q. And so then the 7 MR. JONES: How much time do we have left? 7 MR. JONES: So left sike a break. 11 THE WITNESS All right. 12 MR. JONES: So left sike a break. 13 THE WITNESS So left sike a break. 14 MR. JONES: So left sike a break. 15 THE WITNESS Clay. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time is 22-pm. 19 (Recess, 22-42-41 p.m.) 19 (Recess, 22-42-41 p.m.) 20 VIDEO OPERATOR: This is the beginning of Media Number 3. 21 By MR. JONES: 22 We are back on the record at 2-41 p.m. 23 By MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new videotape. 25 videotape.  Page 179  1 Let's go back up to the controlled cohort study without advising them that you were studying the risk of pseudotumor cerebri and whether or not they would develop it; cornect? 24 Q. That would be a prospective study; correct? 25 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed III. 26 Q. And you have that thatyou can use that this of study can estimate the relative risk or hazard compared to the control group; right? 26 A. Yes. 27 Q. Or And you could not the time is 22-pm. 28 We are back on the record. 29 (Or br. Feigal, we're back from break with a new videotape.  Page 179  1 Let's go back up to the controlled cohort study without advising them that you were talking about, the second box. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed III. 8 Q. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed III. 8 Q. Land of the purpose, the research purpose, of the study to the study purticipants. 10 Q. Image, when you're looking at studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a study without advising them fivance	2	-	2	
5 A. That's right. 6 Q. And so then the 7 MR_ONES: How much time do we have left? 8 VIDEO OPERATOR: Two minutes. 9 MR_ONES: How find think we can get through the 10 next one in two minutes. 11 THE WITNESS: All right. 12 MR_ONES: Ide only has two minutes on the tape. 13 THE WITNESS: Sure. 14 MR_ONES: So test sake a break. 15 THE WITNESS: Sore. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time 18 is 2:24 p.m. 19 (Recess, 2:24-24 p.m.) 20 VIDEO OPERATOR: This is the beginning of Media 21 Namber 3. 22 We are back on the record at 2:41 p.m. 23 BY MR_JONES: 24 Q. Dr. Feigal, we're back from break with a new videotape. 25 Videotape.  Page 179  1 Lef's go back up to the controlled cohort study vithout advising them that you were studying the risk of pseudotumor cohorts, so you'd prospectively follow Mirena patients to see if they developed IIII. 26 Q. In that correct? 27 Q. Dr. Feigal, we're back from break with a new videotape.  Page 179  1 Lef's go back up to the controlled cohort study vithout advising them that you were studying the risk of pseudotumor cohorts, so you'd prospectively of Idow Mirena patients to see if they developed IIII. 3 Q. And you couldn't chically put individuals in a prospective controlled cohort study vithout advising them that you were studying the risk of pseudotumor cohorts and whether or not they would develop it; correct? 3 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants. 4 Q. In the would are chically put individuals in a prospective study, chically; correct? 4 Q. Dr. Begand were following them forward. 5 So you have to make sure that the selection of cases is representative and the elative received with the controls came from the GI practice and the GI practice took care of many patients with the only studies that are feasible are retrospective study, ethically; correct? 5 A. Su than the particular study they raised the question of whether	3	A. It doesn't work here, no. That's right.	3	use)."
6 Q. And so then the 7 MR. JONES: How much time do we have left? 7 NMR. JONES: How much time do we have left? 8 VIDEO OPERATOR: Two minutes. 9 mR. JONES: I don't think we can get through the next one in two minutes. 11 THE WITNESS: All right. 12 MR. JONES: Ho may have been do f Media Number 2, and the time is 3: 2:24 p.m. 13 THE WITNESS: Colay. 14 MR. JONES: So let's take a break. 15 THE WITNESS: Okay. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time is 3: 2:24 p.m. 19 (Recess, 2:24-2:41 p.m.) 10 A. Yes. 11 Q. And you have may be controls for secertainment bias; right? 11 Let's go back up to the controlled cobort study in propertive control group in propertive control group in propertive control group in propertive study; correct? 2 A. Right. And a cohort usually implies an exposure cohort, so yord prospectively follow Mirrera partients to see if they developed IIII. 2 Q. And you addin't ethically put individuals in a prospective control led cohort study without advising them that you were studying the risk for flavorance. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure cohort, so yord prospectively follow Mirrera partients to see if they developed IIII. 3 Q. And you couldn't ethically put individuals in a prospective control led cohort study without advising them that you were studying the risk of pseudotumor correct? 3 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants. 4 Q. Chand you couldn't ethically put individuals in a prospective study, chically; correct? 5 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants. 5 Q. Land you couldn't ethically put individuals in a prospective study, ethically; correct? 5 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes,	4	Q. Okay.	4	A. Yes.
MR. JONES: How much time do we have left?  MR. JONES: How much time do we have left?  MR. JONES: How much time we can get through the next one in two minutes.  MR. JONES: How much time we can get through the next one in two minutes.  MR. JONES: How minutes.  MR. JONES: How minutes.  MR. JONES: He only has two minutes on the tape.  THE WITNESS: All right.  MR. JONES: He only has two minutes on the tape.  THE WITNESS: Sure.  MR. JONES: He only has two minutes on the tape.  THE WITNESS: Sure.  MR. JONES: He only has two minutes on the tape.  THE WITNESS: Okay.  VIDEO OPERATOR: We are going off the record.  This is the end of Modia Number 2, and the time is 2:24 p.m.  Recess, 2:24-241 p.m.)  VIDEO OPERATOR: This is the beginning of Media Number 3.  Ware are back on the record at 2:41 p.m.  MR. JONES: He only has two minutes on the tape.  MR. JONES: He only has two minutes on the tape.  MR. JONES: How minutes on the tape.  The WITNESS: Okay.  VIDEO OPERATOR: We are going off the record.  This is the end of Modia Number 2, and the time is 2:24 p.m.  When are back on the record at 2:41 p.m.  Page 179  Let's go back up to the controlled cohort study wideotape.  Page 179  Let's go back up to the controlled cohort study wideotape.  Page 179  Let's go back up to the controlled cohort study wideotape.  Page 179  Let's go back up to the controlled cohort study wideotape in the mutat you were talking about, the second box.  A. Sure.  Page 179  Let's go back up to the controlled cohort study wideotape in the mutat you were talking about, the second box.  A. Right. And a cohort usually implies an exposure colort, so you'd prospectively follow Mirena patients to see if they developed IIII.  Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising the hard you were talking about, the second box.  A. Sure.  Page 179  Mark JONES: So Let's and the selection of controls is a scompanile as though you have had wither a not just a part of the fact that the your developed IIII.  Q. And you	5	A. That's right.	5	Q. Is that correct?
8 WIDEO OPERATOR: Two minutes. 9 MR. JONES: I don't think we can get through the 10 next one in two minutes. 11 THE WITNESS: All right. 12 MR. JONES: He only has two minutes on the tape. 13 THE WITNESS: Sure. 14 MR. JONES: So let's take a break. 15 THE WITNESS: Sokay. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time 18 is 22-4 p.m. 19 (Recess, 224-24-1 p.m.) 20 VIDEO OPERATOR: This is the beginning of Media 21 Number 3. 22 We are back on the record at 2-41 p.m. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new videotupe. 25 videotupe.  Page 179  1 Let's go back up to the controlled cohort 25 studies that we were talking about, the second box. 26 A. Sure. 27 A. Right. 28 A. Well, people who have a condition like PTC and people who don't, and when you're rejust ovaluate the two groups of patients, just by virtue of the fact that the person has the condition, they may have hand or evaluate the two groups of patients, just by virtue of the fact that the person has the condition, they may have hand or evaluate the relative risk or hazard compared to the controls for ascertainment bias; right?  Q. Okay. Sexplain that to me. 18 A. Ves. 19 Q. Okay. Sexplain that to me. 20 Willoo OPERATOR: This is the beginning of Media 21 Number 3. 22 We are back on the record at 2-41 p.m. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new videotupe. 25 This is the condition of the proposed to more drug because of their underlying condition. 26 This is the deal of Media Number 2. 27 Supplied the may have hand or evaluate the relative risk of hazard compared to the controls for ascertainment bias; right? 29 Q. Dr. Feigal, we're back from break with a new videoung proposed to the fact that the person has the condition, they may have hand or evaluate the relative risk of the fact that the person has the condition, they may have hand or evaluate the relative risk of the fact that the person has the condition, they may have hand or evaluate the relative ris	6	Q. And so then the	6	A. Yes, that's correct.
mext one in two minutes.  10 next one in two minutes.  11 THE WITNESS: All right.  12 MR, JONES: He only has two minutes on the tape.  13 THE WITNESS: Sure.  14 MR, JONES: So let's take a break.  15 THE WITNESS: Sure.  16 VIDEO OPERATOR: We are going off the record.  17 This is the end of Media Number 2, and the time  18 is 2:24 p.m.  19 (Recess, 2:24-2:41 p.m.)  VIDEO OPERATOR: This is the beginning of Media  21 Number 3.  22 We are back on the record at 2:41 p.m.  23 BY MR, JONES:  24 Q. The Feigal, we're back from break with a new  25 videotape.  Page 179  1 Let's go back up to the controlled cohort  2 studies that we were talking about, the second box.  3 A. Sure.  4 Q. That would be a prospective study; correct?  5 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH.  8 Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising them that you were studying ther is for pseudotumor cerebra and whether or not they would develop it; correct?  20 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study of the record.  21 In this work is the second box.  22 Device the second of the controlled cohort study; correct?  23 A. Right.  24 Q. That would be a prospective study; correct?  5 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH.  25 Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising the study to the study but sharp to the control secure of the control search from the GI practice and the GI practice and the GI practice took care of many patients where the volume and prospective study, entically; correct?  26 A. This would be a prospectively but the condition is so arre that to do a retrospective study, entically; co	7	MR. JONES: How much time do we have left?	7	Q. Okay. And you have that that you can use
next one in two minutes  THE WITNESS: All right.  MR. JONES: He only has two minutes on the tape.  THE WITNESS: Sure.  MR. JONES: So let's take a break.  THE WITNESS: Okay.  VIDEO OPERATOR: We are going off the record.  This is the end of Media Number 2, and the time  is 52-24 p.m.  (Recess, 224-241 p.m.)  VIDEO OPERATOR: This is the beginning of Media Number 3.  We are back on the record at 2-41 p.m.  MY. JONES: We are back from break with a new videotape.  Page 179  Let's go back up to the controlled cohort studies that we were talking about, the second box.  A. Sure.  Page 179  Let's go back up to the controlled cohort studies that we were talking about, the second box.  A. Sure.  Q. That would be a prospective study; correct?  A. Right. And a cohort usually implies an exposure cohort. so, you'd prospectively follow Mirena patients to see if they developed IH.  Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising prospective controlled cohort study without advising them that you were studying the risk of pseudotumor cerebri and whether or not they would develop it; correct?  A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants.  A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study	8	VIDEO OPERATOR: Two minutes.	8	that kind of case-control study to study a rare event;
11 THE WITNESS: All right. 12 MR. JONES: He only has two minutes on the tape. 13 THE WITNESS: Sure. 14 MR. JONES: So ler's take a break. 15 THE WITNESS: Sure. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time 18 is 2:24 p.m. 19 (Recess, 2:24-2:41 p.m.) 20 VIDEO OPERATOR: This is the beginning of Media 21 Number 3. 22 We are back on the record at 2:41 p.m. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new 25 videotape.  Page 179  1 Let's go back up to the controlled cohort 2 studies that we were talking about, the second box. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure cohort, so you'd prospective other old them that you were studying the risk of pseudotumor to ecrebri and whether or not they would develop it; correct? 10 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the twoll of groups of whether caffeine cancer patients generally studying a potential association between levonorgestrel and and PTC, you don't have a choice but to do a generally disclose the purpose, the research purposes, of the controlled cohort study without advising the risk of pseudotumor to ecrebri and whether or not they would develop it; correct? 20 A. I think you could do them prospectively but the controlled cohort study vising a potential association between levonorgestrel and and PTC, you don't have a choice but to do a generally disclose the purpose, the research purposes, of the control serve a group that had been advised not to drink coffee because the controls were a group that had been advised not to drink coffee because the control were a group that had been advised not to drink coffee because they had uleers, for example. 24 Q. Okay. Then going down to the next box, we have,	9	MR. JONES: I don't think we can get through the	9	correct?
12 MR. JONES: He only has two minutes on the tape. 13 THE WITNESS. Sure. 14 MR. JONES: So let's ake a break. 15 THE WITNESS: Okay. 16 WIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time 18 is 2:24 p.m. 19 (Recess, 2:24-241 p.m.) 19 VIDEO OPERATOR: This is the beginning of Media 21 Number 3. 22 We are back on the record at 2:41 p.m. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new 25 videotape.  Page 179  1 Let's go back up to the controlled cohort 2 studies that we were talking about, the second box. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure of cohort, so you'd prospectively follow Mirena patients to see if they developed IIH. 8 Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising 10 them that you were studying the risk of pseudotumor 11 cerebra and whether or not they would develop it; correct? 1A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants. 16 Q. I mean, by and large, when you're looking at 17 studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a 19 retrospective study, correct? 2 A. I think you could do them prospectively but the condition. So you'd prospective study, correct? 2 A. I think you could do them prospectively but the condition is so rare that I would agree with you that the only studies that are feasible are retrospective studies. 24 Q. Okay. Then going down to the next box, we have, 24 Robins and maybe controls for ascertainment bias; right? 2 A. Right. A. Right. A. R. Well, people who have a —you know, here you're studying people who have a —you know, here you're studying people who have a —you know, here you're studying people who have a —you know, here you're studying people who have a —you know, here you're studying people who have a —you know, here you're studying pe	10	next one in two minutes.	10	A. Yes.
13 THE WITNESS: Sure. 14 MR. JONES: So let's take a break. 15 THE WITNESS: Okay. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time 18 is 2:24 p.m. 19 (Recess, 2:24-2:41 p.m.) 20 VIDEO OPERATOR: This is the beginning of Media 21 Number 3. 22 We are back on the record at 2:41 p.m. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new 25 videotape.  Page 179  1 Let's go back up to the controlled cohort 2 studies that we were talking about, the second box. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH. 3 Q. And you cohort may be nave a condition like PTC and people who don't, and when you're trying to evaluate the two groups of patients, just by virtue fact that the person has the condition, they may have had different medical care, they may have had more interactions, they may be nave been exposed to more drugs because of their underlying condition.  Page 179  Page 181  I Let's go back up to the controlled cohort 2 studies that we were talking about, the second box. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH. 9 prospective controlled cohort study without advising them that you were studying the risk of pseudotumor correct? 10 correct? 11 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants. 16 Q. I mean, by and large, when you're looking at study to the study participants. 17 you were studying them forward. 18 A. Right. And when you're trying to evaluate the two years and maybe controls for a scape and were following them forward.  And there are examples from the literature where they looked at dictary risk factors camere. 19 practice and the GI practice took care o	11	THE WITNESS: All right.	11	Q. And that kind of study can estimate the relative
14 MR. JONES: So let's take a break. 15 THE WITNESS: Okay. 16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time 18 is 2:24 p.m. 19 (Recsas, 2:24:241 p.m.) 20 VIDEO OPERATOR: This is the beginning of Media 21 Number 3. 22 We are back on the record at 2:41 p.m. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new 25 videotape.  Page 179  1 Let's go back up to the controlled cohort 2 studies that we were talking about, the second box. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH. 3 prospective controlled cohort study without advising them that you were studying the risk of pseudotumor cerebri and whether or not they would develop it; correct? 11 correct? 12 correct? 13 A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, for the study to the study participants. 16 Q. I mean, by and large, when you're looking at 11 studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a 19 retrospective study, correct? 26 A. I think you could do them prospectively but the condition is so rare that I would agree with you that the only studies that are feasible are retrospective study: correct? 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. Then going down to the next box, we have, 24 Q. Okay. So - Pack and more marby econtrols for a secretaring the controls were a group that had been advised not to drink coffee because they had ulcers, for	12	MR. JONES: He only has two minutes on the tape.	12	risk or hazard compared to the control group; right?
THE WITNESS: Okay.  VIDEO OPERATOR: We are going off the record.  This is the end of Media Number 2, and the time is 2:24 p.m.  VIDEO OPERATOR: This is the beginning of Media Number 3.  We are back on the record at 2:41 p.m.  BY MR, JONES:  Description of the properties of the fact that the person has the condition, they may have had different medical care, they may have had more interactions, they may be a have been exposed to more drugs because of their underlying condition.  Page 179  Let's go back up to the controlled cohort study wideotape.  Page 179  Let's go back up to the controlled cohort study windout advising cohort, so you'd prospectively follow Mirena patients to see if they developed IIH.  Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising them that you were studying the risk of pseudotumor cerebri and whether or not they would develop it; correct?  A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants.  Q. I mean, by and large, when you're looking at studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a retrospective study, correct?  A. Think you could do them prospectively but the condition is so rare that I would agree with you that the only studies that are feasible are retrospective study.  Q. Okay. Then going down to the next box, we have, 4  Q. Okay. Then going down to the next box, we have, 4  So then the pancreatic cancer patients generally had not been the controls of the study to the interpolation.  The visual properties of the study to the study participants.  Description of the study they raised the question of whether cancer.  The visual properties of the study to the study participants.  Description of the study they raised the question of whether cancer patients generally had not been the controls were a group that had been advised not to drink coffee because they studies.  Think you could do t	13	THE WITNESS: Sure.	13	A. Right.
16 VIDEO OPERATOR: We are going off the record. 17 This is the end of Media Number 2, and the time 18 is 2:24 p.m. 19 (Recess, 2:24-2:41 p.m.) 20 VIDEO OPERATOR: This is the beginning of Media 21 Number 3. 22 We are back on the record at 2:41 p.m. 23 BY MR. JONES: 24 Q. Dr. Feigal, we're back from break with a new 25 videotape.  Page 179  1 Let's go back up to the controlled cohort 2 studies that we were talking about, the second box. 3 A. Sure. 4 Q. That would be a prospective study; correct? 5 A. Right. And a cohort usually implies an exposure 6 cohort, so you'd prospectively follow Mirena patients to 7 see if they developed IIH. 8 Q. And you couldn't ethically put individuals in a 9 prospective controlled cohort study without advising 10 them that you were studying the risk of pseudotumor 11 cerebri and whether or not they would develop it; 12 correct? 13 A. Generally speaking, that would be correct. You 14 generally disclose the purpose, the research purposes, of the study to the study participants. 15 of the study to the study participants. 16 Q. I mean, by and large, when you're looking at PTC in general, not just with—as a risk for Mirena, you would probably be subulying the risk of pseudotumor cerebri and whether or not they would develop it; 21 correct? 22 Let's go back up to the controlled cohort study without advising of the function of the fact that the subulying the risk of pseudotumor of the function of the fact that the subulying the risk of pseudotumor of the fact that the subulying the risk of pseudotumor of the fact that the subulying the risk of pseudotumor of the fact that the subulying the risk of pseudotumor of the fact that the subuly and the subuly and the subuly in the cohort study years ago and were following them forward.  A. So then the pancreatic cancer patients generally had not been put on special diets and so they tended to show that — in that particular study they raised the question of whether calleine caused pancreatic cancer.  But it was selection has because the controls wer	14	MR. JONES: So let's take a break.	14	Q. And you have maybe controls for selection bias
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VIDEO OPERATOR: This is the beginning of Media Number 3.  We are back on the record at 2:41 p.m.  BY MR. JONES:  Q. Dr. Feigal, we're back from break with a new videotape.  Page 179  Let's go back up to the controlled cohort studies that we were talking about, the second box. A. Sure.  Q. That would be a prospective study; correct? A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH. Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising them that you were studying the risk of pseudotumor cerebri and whether or not they would develop it; correct? A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants. Q. I mean, by and large, when you're lowing at studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a retrospective study, ethically; correct? A. I think you could do them prospectively but the condition is so rare that I would agree with you that the only studies that are feasible are retrospective they looked. A control is a shough you had set up a cohort sudy who had set up a cohort study participants.  Q. I mean, by and large, when you're looking at studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a retrospective study, ethically; correct?  A. I think you could do them prospectively but the condition is so rare that I would agree with you that the only studies that are feasible are retrospective they looked at dictary risk factors, for example.  20 Okay. Then going down to the next box, we have,  21 Okay. So - 24 A. So that's just an example of you just have to	18	is 2:24 p.m.	18	A. Well, people who have a you know, here you're
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23 studies. 23 Q. Okay. So 24 Q. Okay. Then going down to the next box, we have, 24 A. So that's just an example of you just have to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Let's go back up to the controlled cohort studies that we were talking about, the second box.  A. Sure.  Q. That would be a prospective study; correct?  A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH.  Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising them that you were studying the risk of pseudotumor cerebri and whether or not they would develop it; correct?  A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants.  Q. I mean, by and large, when you're looking at studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a retrospective study, ethically; correct?  A. I think you could do them prospectively but the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	If you were looking at PTC in general, not just with as a risk for Mirena, you would probably be studying men and women and yet if the question was about Mirena, you would really only be interested in the women.  So you have to make sure that the selection of cases is representative and the selection of controls is as comparable as though you had set up a cohort study years ago and were following them forward.  And there are examples from the literature where they looked at dietary risk factors, for example, for pancreatic cancer but the controls came from the GI practice and the GI practice took care of many patients who were put on special diets.  Q. Uh-huh.  A. So then the pancreatic cancer patients generally had not been put on special diets and so they tended to show that in that particular study they raised the question of whether caffeine caused pancreatic cancer.  But it was selection bias because the controls were a
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25 "Case-Control Studies (enroll patients who have already 25 pay a lot of attention to the details to make sure that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Let's go back up to the controlled cohort studies that we were talking about, the second box.  A. Sure.  Q. That would be a prospective study; correct?  A. Right. And a cohort usually implies an exposure cohort, so you'd prospectively follow Mirena patients to see if they developed IIH.  Q. And you couldn't ethically put individuals in a prospective controlled cohort study without advising them that you were studying the risk of pseudotumor cerebri and whether or not they would develop it; correct?  A. Generally speaking, that would be correct. You generally disclose the purpose, the research purposes, of the study to the study participants.  Q. I mean, by and large, when you're looking at studying a potential association between levonorgestrel and PTC, you don't have a choice but to do a retrospective study, ethically; correct?  A. I think you could do them prospectively but the condition is so rare that I would agree with you that the only studies that are feasible are retrospective studies.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	If you were looking at PTC in general, not just with as a risk for Mirena, you would probably be studying men and women and yet if the question was about Mirena, you would really only be interested in the women.  So you have to make sure that the selection of cases is representative and the selection of controls is as comparable as though you had set up a cohort study years ago and were following them forward.  And there are examples from the literature where they looked at dietary risk factors, for example, for pancreatic cancer but the controls came from the GI practice and the GI practice took care of many patients who were put on special diets.  Q. Uh-huh.  A. So then the pancreatic cancer patients generally had not been put on special diets and so they tended to show that in that particular study they raised the question of whether caffeine caused pancreatic cancer. But it was selection bias because the controls were a group that had been advised not to drink coffee because they had ulcers, for example.  Q. Okay. So

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#### Page 182

- 1 your cases and controls are representative of their, you
- 2 know, respective populations.
- 3 So selection bias is, you want to figure -- you
- 4 want to try to do your best to find cases and controls
- 5 that are pretty daggone similar?
- 6 Well, you want them to be each representative of
- their own population. So you've got the cases -- you've 7
- 8 got the population that has the disease. You want your
- 9 cases to be typical of those patients.
  - And then the controls are supposed to be comparable. Maybe they're supposed to be the same age,
- 12 same age and sex. You know, you might control for that, 13 but in other respects you want them -- you don't want
- 14 them to be different in some way because, you know, in
- 15 my example of trying to study diet in a population who
- 16 had been put on special diets, they don't represent the
- 17 general population's eating.
- 18 Uh-huh. Q.
- 19 A. So that's why you -- that's why selection
- 2.0 matters.

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- 21 So on selection bias, what's the process for
- 22 trying to minimize selection bias? What are good
- 23 methods for developing a study that's going to minimize
- 24 selection bias?
  - MR. SCHMIDT: Objection. Vague.

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- 1 MR. JONES: Uh-huh.
- 2 THE WITNESS: -- that you're part of that
- 3 spectrum that is more complicated.
  - BY MR. JONES:
  - So that's the challenge to case controls is
- 6 to -- one of the papers that was written years ago about
- 7 this is the problem of spectrum and bias, being the
- 8 right spectrum of patients and not being biased in the
  - way that they're ascertained.

You may have more data on one group than the other and that makes -- that may make something

- 12 artificially appear to be the case but it's just that 13 you collected more information on one group. So that's
- 14 a challenge.
- 15 BY MR. JONES:
- 16 Say I was doing a study and you and Mr. Schmidt
- 17 were my control group. Would it be acceptable for me to
- 18 just walk out in the lobby of the law firm and select
- 19 two other people and say this is going to be my control 20
  - group?
- 21 A. No. You'd want a --
- 22 MR. SCHMIDT: Objection to -- object to
- 23 foundation.
- 24 THE WITNESS: You'd want a little more care than

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### Page 183

THE WITNESS: Well, you'd start with your cases and you'd say, what are the cases that I want to study

- and is there a way that I can select a representative
- 4 sample?

So if, for example, you've got -- you're at a university and the only -- you only see the most severe and unusual cases and all the milder ones are out in the general practices, you'd want a way to find, to select your cases from that whole, not just the university but

from the general practice. In other words, you'd only

be looking at part of the spectrum of the disease.

disease, PTC in this case.

With respect to the controls, you want to make sure that the controls are the appropriate control group. You want them to be the same kinds of patients as the cases, except that they didn't develop the

And so if PTC can, you know, develop in a healthy person, for example, then you want to make sure that your controls could -- you know, largely reflected a healthy population.

That's often a challenge for hospital-based studies and medical records systems because the more interactions you have with a health-care system, the more times you're hospitalized or things, more likely you're not an average, healthy person --

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- If you look at how case-controlled studies do,
- 2 they usually have a large population of controls.
- 3 Controls are easier to come by than cases. So they
- 4 usually take the cases that -- all the cases that they
- 5 can find, because they're studying rare things so cases 6
- are precious, so they find all the cases. You have to
- 7 make sure it's the right place that gets the right
- 8 cases, as I mentioned before.

For controls, then they typically randomly select them from medical records, other kinds of ways to show that they're representative of the same population that the cases came from. So that's the selection bias aspect.

Then the ascertainment issue is you have to have the same access to information for the cases and controls. And so if, for example, you can contact cases because they're patients in your clinic but the controls, you know, you don't have a relationship with, you don't have a way to contact them, then you may have incomplete information on one group compared to much more complete on the other and that could create some hiases

So the attention is really on the details in the specific studies to do these right.

47 (Pages 182 to 185)

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1 BY MR. JONES:

- 2 So on the selection bias, again, if you and Mr.
- 3 Schmidt were my cases --
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- 5 -- would it be appropriate for me to get my Q.
- 6 controls by saying, you know, each of you call two of
- 7 your friends and ask them if they'll participate in my
- 8
- 9 MR. SCHMIDT: Object to foundation.
- 10 THE WITNESS: Well, I chuckled because --
- 11 MR. SCHMIDT: Incomplete hypothetical.
- 12 THE WITNESS: -- because friend controls
- 13 actually are one of the ways that people select controls 14 in case-controlled studies. They actually ask people to 15 identify someone like them in their community that they
- 16 can approach and ask if they'd participate in a study.
- 17 More often, they come from what I would guess, 18 say, convenience collections of people, such as you
- 19 mentioned the lobby, but from the hospital, it would
- 20 probably be other people in the clinic who don't have
- 21 the condition. That's -- you know, that's commonly 22 done. Or if you're selecting from a large health
- 23 database and identifying them, then other participants
- 24 in the health database.

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- 1 BY MR. JONES:
- And on this -- what did you call it? Friend 2
- 3 control?

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- 4 A. Yes.
- 5 You said that people were asked to find a friend
- 6 that's like them?
- 7 Yes.
- 8 Q. Doesn't that introduce some bias into -- you
- 9 know, is Paul or is Mr. Schmidt like me or you like -- I
- 10 mean, that introduces some biases as well.
- 11 No. That's absolutely right. No. No. So
- 12 that's not a great way to do it. But that has -- that
- 13 is a method that has been used.
- 14 Okay. And then -- okay. So is there -- in
- 15 terms of the controls for selection bias and
- 16 ascertainment bias, can you ever eliminate in one of
- 17 these case-control studies, absolutely eliminate
- 18 selection bias and ascertainment bias?
- 19 No. And what the appropriate thing to do is to
- 20 estimate what -- you know, what the -- how large a
- 21 problem it could be.

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- So you shouldn't just discard studies because 22
- 23 you can think of a reason that they might not be -- that
- 24 there could be a problem with the study. You should
  - also -- the responsible thing to do is to then assess

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1 how big of a problem could that be with this.

2 And you'll actually see that done in some

articles, where they try and estimate what effects could

- 4 be of things that, you know, could be biased in the
- 5 study.

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- 6 And is there a way of -- is there an accepted
  - way of quantifying the amount of selection bias or
- 8 ascertainment bias?
  - The usual -- well, yes, but there isn't -- it
- 10 isn't quite as standardized as calculating a P-value
- from a two-by-two table, which is really pretty, pretty 11
- 12 well worked out. There's a lot more judgment involved.
- 13 But there are techniques that involve modeling, where
- 14 you make some assumptions about how big a bias effect
- 15 could be and see how much that would change your result.
- 16 That's one -- you know, that's one common method.
- 17 And do you agree that -- well, strike that.
- 18 Okav.

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- 19 Let's move to the next box here,
- 20 "Pharmacoepidemiology Studies (cohort or case-control
- 21 designs conducted with insurance databases)." And you
- 22 have yes, can study rare events; yes, can estimate
- 23 relative risk or hazard compared to control group;
- 24 again, we're at maybe/maybe on selection bias and
  - ascertainment bias; and adverse effects assessed

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- 1 prospectively before the adverse event or adverse 2 effect, you have yes/no on that.
  - Tell me why that's yes/no.
- 4 Well, ideally, when you're studying an exposure
- 5 risk, you want to know that the exposure -- know about
- 6 the exposure before you know about the adverse effect
- 7 because we know that people who have had, you know,
- 8 particularly a serious adverse effect spend a lot of
- 9 time thinking about what did I do to deserve this cancer
- 10 or this birth defect or this problem and they can
- 11 remember a lot more drugs that they took and they can
- 12 remember a lot more other behavioral kinds of things
- 13 than someone where, you know, nothing is going on in
- 14 their life.

  - And so you can't always -- in these databases,
- 16 some of them are just cross-sections of one point in 17
- time and you don't have any historical record that the 18
- exposure occurred well before the event. And with the
- 19 databases, it's less of a problem of memory because you
- 20 are collecting but it's an issue sometimes that you just
- 21 can't reconstruct the time sequence when two things, you
- 22 know, two things appear together.
- 23 You can't tell from some databases, for example, 24 when someone is diagnosed whether it's a new diagnosis,
- 25 and if you don't know when the diagnosis started, then

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- you don't know if they took the drug before the 1
- 2 diagnosis. So that's a bit of a problem. If someone
- 3 already has the condition when they take the drug, the
- 4 drug couldn't have caused it. So that's the issue
- 5 there.
- 6 I'm just having trouble understanding how you
- 7 can use an insurance database to study something
- 8 prospectively.
- 9 Well, it's a retrospective/prospective.
- 10 Okay. Explain that to me. Q.
- 11 Well, if you had an insurance record that had
- 12 five years' worth of data, for example, you can go back
- 13 to that first year and find the people who do not yet
- 14 have --

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- 15 MR. SCHMIDT: Bless you.
- 16 THE WITNESS: -- the condition that you're
- 17 looking at and you looked at the drugs they're taking
- 18 and then you look at the second year and the third year
- 19 and you can see all the things that are going on for
- 20 that patient and then they develop the complication, and
- 21 then you can see -- and then you can say, all right, 22 they were exposed to these things before the event of
- 23 interest and are people who have the event more likely
- 24 to have had those exposures than the controls?
- 25 Now, a lot of studies can't establish the start

- Page 192
- patients forward -- you know, forward in time. 1
  - So those are sometimes called
- 3 retrospective/prospective studies.
- 4 BY MR. JONES:
- 5 Follow them forward in time based upon the
- 6 treatment that they've had.
  - Yeah. You're looking at the exposures, whether
- 8 you're looking at the risk from cigarettes, from
- 9 obesity, or from a drug, but the point is you've got
- 10 longitudinal information that you can rely on. And not
  - all insurance databases do. So that's why it's yes/no.
- 12 Okay. And then the next in your hierarchy is,
- 13 "Case Series (a collection of patients with an adverse
- 14 event)," and you have yes, it can study a rare event;
- 15 no, it cannot estimate relative risk or hazard; then you 16
  - get into the ascertainment and selection bias, maybe/no,
- 17 and no.
  - Yeah. And our problem here is we don't have a A.
- 19 control group. So we may have -- I may say I've got
- 20 five cases in my clinic, but you'd say, compared to
- 21 what?
- 22 Q. Uh-huh.
  - And then the question is, why do you have five
- 24 cases in your clinic or your referral center or so
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- of a condition. There are some conditions where the condition starts and then it may occur again later and
- 3 you don't know that it's the first episode.
- 4 And then the other challenge if it's billing
- 5 data is that you really have to validate that just
- 6 because it's coded that way, they really had the
- 7 disease, not that they're being evaluated, did they have
  - the disease? Because they get coded the same sometimes.
  - But it's -- the different insurance databases
  - have different quality of longitudinal information. And
- 11 so if you have a disease that can appear and then, say,
- 12 be quiet for five years and then appear again and you've
- 13 only got two years of data, year before, year after, and
- they develop the disease in the second year, you don't 15
- know that they've had it before from an insurance
- 16 database, you've just got the codes.
  - Now, the way you can get around that is in the systems where you also have access to the medical
- 19 records. So some of the systems, like Kaiser, for 20 example, with their databases, they start their task by
- 21 looking at the codes but then they pull the charts and
- 22 see what's really going on. So they use the codes to
- 23 pull the charts and then they can do -- then they can
- 24 simulate what a prospective cohort study is because they 25 can identify an exposure and they can follow those

- Page 193 But the problem with the case series is that it
- doesn't have a control group so you really can't make a
- 3 comparison. The case series are helpful in describing
- 4 how patients do with a condition, what the spectrum is,
- 5 what they look like, how many of them might have a
- 6 factor, in this case, for example, obesity, but you
- 7 don't have any control group to try and get, link it
- 8 back to in terms of, you know, population.
- 9 And when we talk about case series, this is what
- 10 we see in medical journals, doctors writing in saying,
- 11 hey, I've had this experience, I had five patients --
- 12 Right. A.
- 13 -- in my clinic --
- 14 A. Right.
- 15 -- and here are the details; right?
- 16 Right. Right. The minimum number seems
- 17 to be three to write them up but --
- 18 Okay. Q.
- 19 -- but before the journal editors will publish
- 20 it but -- unless it's very unusual.
- 21 But yeah. So these are sort of the uncontrolled
- 22 collections. They're a step up from an individual case
- 23 report in that somebody has systematically tried to
- 24 describe the condition they're describing. They're
  - writing a paper about the condition, if you will,

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- 1 because these often come from the literature, or a
- 2 company could do one as part of its evaluation. But --
- 3 and so it will have some uniformity in the way that it
- 4 describes and assesses them but it won't have a control
- 5 group. So that's why it's limited.
- 6 Okay. You mentioned the individual case
- 7 reports. So what you're --
- 8
- 9 -- talking about there is not Spontaneous Q.
- 10 Adverse Event Reports, you're talking about a
- 11 health-care professional who writes something up?
- 12 No. It can be any -- it can be from any source.
- 13 Q. Okav.
- 14 It can be from any source.
- 15 The case series are almost always going to be 16
- written up by a health professional or a safety
- 17 professional but the case reports, as we've talked about
- 18 earlier, they can come from any source. You can learn
- 19 about them from any source.
- 20 And the individual case reports, the spontaneous
- 21 reports, the quality of the data, I believe you would
- 22 agree, is hit or miss.
- 23 Yeah, it's varied.
- 24 Sometimes they're well documented?
- 25 Right.

- was --
- 2 Q. She.
- 3 -- trying -- I'm sorry. She was trying to do.
- 4 My -- but being an abstract, there's really not --
- there's not very many details in the methods about where

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- 6 the controls came from.
- 7 And so, for example, you know, in terms of 8 ascertainment bias, it wasn't clear if they had the
- 9 ability to actually telephone the controls as well as
- 10 the cases. So there was just -- because it's an
- 11 abstract, it's -- you know, abstracts are typically 10
- 12 or 11 sentences long and often works in progress.
- 13 But that study is, I think, designed as a 14 case-controlled study but there's a lot of questions
- 15 about that study that we probably want to talk about.
- 16 And it's longer than 10 or 11 sentences long;
- 17 right?

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- I'd have to count them. But when I used to A.
- 19 advise students writing abstracts, I'd say, you've got
- 20 ten sentences, three for introductions, three for
- 21 results, and three for conclusions.
- 22 Well, we'll look at it in a little bit. Q.
- 23 A. All right.
- 24 And you've mentioned, you know, that there's
- 25 some information, based upon your review of that

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- 1 Many times they're not; right?
- 2 Right. And then they're contradictory and
- 3 there's, you know, the individual -- they vary in their
- 4 quality.

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- 5 And with the case series, you get more detail
- 6 because a health-care professional is kind of putting
- 7 their reputation on the line by publishing something?
  - A. Well, and they're trying to write up --
- 9 MR. SCHMIDT: Object to characterization.
- 10 THE WITNESS: I think what -- whether it's their 11 reputation or not, they're trying to write up and
- describe a specific thing. They think there's some
- 13 commonality to those cases. So there's more detail and
- 14 there's more -- they're more likely to note whether
- 15 there's common features to the cases that might be a
- 16 risk factor, although you don't have a control group.
- 17 With the individual cases, you don't have a 18 control, you don't have any -- you know, you don't have
- 19 anything to anchor those things to.
- 20 MR. JONES: Okay. 21 BY MR. JONES:
- 22 And the Rai abstract, would that be -- on the
- 23 first page, would that be what you would consider a
- 24 case-control study?
- 25 A. It -- I think that's what he was trying or she

- abstract, that you don't know whether, for instance,
- 2 they had the opportunity to telephone controls; right?
- 3 A. Well, that's right. We don't -- there are some
- 4 things that we don't know and -- although we'll get to
- 5 this, the other thing that was unusual was the number of
- 6 cases that he identified. When you look at some of the
- 7 other -- or she identified.
- 8 When we look at some of the other literature,
- 9 you'll see far fewer cases being identified by a
- 10 combined effort of nine or ten university hospitals. So
- 11 if a paper ever is written about that, we'll be able to 12 answer some of those questions.
- 13 But it's -- the other possibility, which gets to 14
- selection, is it could be that the net was cast very
- 15 broadly in terms of trying to obtain possible cases. 16 And we know that the ICD-9 codes, when they're used for
- 17 PCT, are actually only referring to an actual case of
- 18 PTC about half the time. So we just don't know that
- 19 about that abstract.
- 20 Right. And you're speculating that in that
- 21 particular study that only 50 percent of the cases
- 22 identified by ICD-9 code might not be PTC cases;
- 23 correct?
- 24 Well, that's right. There's no description.
- 25 Normally, in a study, in a study that has ability to

50 (Pages 194 to 197)

Page 200 Page 198 1 write a longer methods section, they would describe how 1 THE WITNESS: Not exactly. 2 they validated their selection criteria and how they 2 I think that you can make some estimates, with 3 know that the cases are PTC. 3 limitations, if you know the total sales of the product 4 4 Are you aware of whether or not those authors but the problem with spontaneous reports is that there's 5 5 have a full article in process? always a degree of underreporting. 6 6 I don't know one way or the other. So if you were to get a number of reports that 7 7 O. In progress? when you divided it by your known sales of the product, 8 8 Have you heard from anyone, any of your for example, and that was already more reports than you 9 colleagues in the medical community, that these authors 9 would expect from the background rate and even though 10 10 have developed a full article that's now under -- being you couldn't estimate the incidence, you'd say this 11 subjected to the peer-review process? 11 looks like we've got an association with the drug. 12 12 No, I don't know one way or the other. On the other hand, if it's a serious condition 13 13 MR. SCHMIDT: It's kind of like the next J. K. where the reporting is generally better and the rates 14 Rawling's book. All we hear is chattering. Might be 14 are below or similar to the background rates, that's 15 coming, it might not be. 15 reassuring but it isn't a reason to stop looking. 16 16 MR. JONES: Do share. You -- but that is something that companies BY MR. JONES: 17 17 commonly do is they compare the rates compared to sales, 18 18 and that helps also understand over time if the An individual --19 19 MR. JONES: That's a good joke. reporting is going up and the sales are going up 2.0 BY MR. JONES: 20 proportionally, then you may be looking at something 21 21 Q. An individual spontaneous -that isn't changing. 22 MR. SCHMIDT: That will be my contribution. 22 On the other hand, if the reporting is going up 23 23 and the sales are flat, then it may be a problem that I'll shut up now. 24 BY MR. JONES: 24 increases with time, with, you know, more prolonged 25 exposure to the same number of patients. 25 Q. An individual spontaneous case report is the Page 199 Page 201 1 observation of an adverse event associated with a drug; 1 So there are some clues, but you just can't do 2 correct? 2 epidemiology from aggregated case reports. 3 A. That's correct. 3 BY MR. JONES: 4 And these reports may be useful in some cases to 4 Can you point me to anything and -- any FDA Q. 5 detect signals of a potential association between 5 guidances, FDA regulations, statutes governing FDA that 6 outcomes and medical treatments; correct? 6 says if you have sales data, then you can use 7 7 That's correct. spontaneous reports to provide estimates of incidence 8 And the FDA and product manufacturers use 8 rates or prevalence for the product? 9 spontaneous reports to detect new potential safety 9 Not in those exact terms but, you know, if you 10 issues: correct? 10 look at the quote that starts on Page 13 and goes on to 11 A. Yes. 11 Page 14, FDA is talking about the factors by which you 12 12 And these reports, even when aggregated, cannot evaluate the number of reports you have. 13 provide estimates of incident -- incidence rates or 13 So, for example, they point out publicity is 14 prevalence for the product, let alone provide 14 something that can increase the number of reports, or 15 comparative rates between products; correct? 15 how long the product has been -- has been -- the product 16 A. Yes, that's correct. And FDA has said that as 16 has been marketed. 17 well. 17 So I think these are more qualitative things 18 O. So you can't use spontaneous reports to try to 18 that you evaluate. So you do look at your sales and you 19 determine what the incidence rate is; correct? 19 do, you know, calculate some numbers but you use the 20 That's correct. 20 information more qualitatively. You can't assert that 21 And if someone tried to use spontaneous reports 21 that's the known incidence or prevalence of the adverse

51 (Pages 198 to 201)

effect in all users of the drug because you just don't

I'm trying to find in the quote that you've

cited me to anywhere where it discusses sales data, if

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have all the reports.

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to estimate incidence rates, that would be contrary to

MR. SCHMIDT: Object to characterization.

what FDA says; correct?

Well, not --

Page 202 Page 204 1 you have sales data, that you can use spontaneous 1 A. Yes, I have. 2 reports to provide estimates of incidence rates or 2 O. Okay. And so you've looked at the Rai study --3 prevalence for the product. A. Yes. 4 4 Well --Q. -- from the abstract. 5 5 Q. Can you point me to that? A. 6 -- it's not in the report, but it isn't what 6 How much would you estimate a study like the Rai A. O. 7 7 I've said. study would cost? 8 What I've said is that you take that information 8 MR. SCHMIDT: Objection. Foundation. 9 into account. You know, they point out other factors, 9 THE WITNESS: If it involves contacting 10 10 such as publicity or length of time on the market, which patients, chart reviews, certain amount of work before, 11 may relate to cumulative exposure and sales. These are 11 the individual patient cost, once identified, is 12 factors to consider when you look at why are you getting 12 probably in the range of three to four thousand dollars 13 13 reports and how many you're getting but FDA's bottom per patient. The upfront work of doing the database 14 14 line is that you can't calculate accurate incidence or work and all of that type of stuff, maybe a few, you 15 15 know, a few tens of thousands of dollars. prevalence rates. 16 16 And when you talk about FDA talking about So I can't do the math in my head, how that 17 17 publicity and time on the market, extent of use, it's works out, but those are sort of typical costs for 18 not talking about calculating an incidence rate from 18 studies like that today. 19 19 that data, is it? BY MR. JONES: 2.0 A. No, it's not. It's talking about -- although 20 So are you of the understanding that the 21 21 you can do that. But it's talking about evaluating the patients who participated in the telephone interviews in 22 relationship of the reports, the reports to the total 22 the Rai study were paid three or four thousand dollars 23 23 apiece? 24 And it's a common practice in industry to sort 24 No. That's the labor cost of the study 25 25 of say, if these were all the reports we had and this is personnel from the time they identify a patient, do the Page 203 Page 205 1 the incidence and this -- if this is all the reports and 1 interview, fill out the case report forms, get the data 2 2 this is the sales, what would the incidence be, you'll in the database. If you just add up the hours of their 3 see that done. But they don't -- I think everyone will 3 time, that would be my estimate. Could be a little less 4 acknowledge that doesn't calculate accurate incidence 4 than that. But, no, that's assuming you're not paying 5 5 the patients, that the patients are just voluntarily and prevalence. 6 Going back to your hierarchy of study design and 6 participating. 7 7 evidence for drug-associated adverse effects, are you And I think that maybe that study said that they 8 aware of any efforts by Bayer to -- strike that. 8 were volunteers. 9 Are you aware of any case-control studies that 9 Yes. That wouldn't surprise me. 10 Bayer has conducted to study the potential association 10 Do you agree that generally rigorous 11 between pseudotumor cerebri and Mirena? 11 pharmacoepidemiologic studies, such as case-control 12 12 No, I'm not. And I think even the Rai article, studies and cohort studies with appropriate follow-up, 13 13 you know, illustrates how difficult it is to actually are usually employed to further examine the potential 14 organize those studies. 14 association between a product and an adverse event? 15 And are you aware of any efforts by Bayer to 15 I don't think they're --16 conduct a pharmacoepidemiology study to examine the 16 MR. SCHMIDT: Objection. 17 potential association between pseudotumor cerebri and 17 THE WITNESS: I don't think they're usually 18 employed. They're a tool that's being used more and 18 Mirena? 19 19 No, I'm not aware of any pharmacoepidemiology more as the databases become more accessible. 20 20 studies that have been completed and I don't recall It's only been within the last half decade that 21 21 reviewing documents about plans so -- but there the databases linked pharmacy records with medical 22 certainly -- there certainly -- I'm not aware of any 22 diagnoses. So there was a lot of pharmacoepi in the 23 that have been conducted. 23 past that was simply based on studying patterns of drug 24 Have you been a part of designing 24 use to try and guess what was going on medically. 25 25 MR. JONES: I -pharmacoepidemiology studies in your career?

52 (Pages 202 to 205)

	David William Feigal	1	
	Page 206		Page 208
1	THE WITNESS: So that the tools have gotten	1	Q. Is it your testimony and belief that every
2	better and better and better. So I wouldn't say usual,	2	warning and adverse reaction listed in the current
3	but it's a tool that's being employed more often, more	3	Mirena label is supported by reasonable evidence of a
4	and more often today.	4	causal association?
5	BY MR. JONES:	5	A. I haven't
6	Q. Will you turn to Page 13 of your report.	6	MR. SCHMIDT: Objection. Foundation.
7	A. Yes.	7	THE WITNESS: I haven't really looked. You
8	Q. And do you see down at the last full paragraph	8	know, I've only really in my work with Mirena have
9	where it says, "According to FDA"?	9	really only looked at perforation and IIH so I don't
10	A. Yes.	10	really have any opinions about the others.
11	Q. Can you read that into the record.	11	BY MR. JONES:
12	A. Yeah.	12	Q. But you're giving an opinion in this case that
13	Rigorous pharmacoepidemiology	13	the labeling was adequate; correct?
14	Q. Can you start with the beginning of the	14	A. Yes; with respect to PTC.
15	sentence.	15	Q. When is the last time you reviewed the label?
16	A. Okay. According to FDA, rigorous	16	A. I think I've looked at the label within the last
17	pharmacoepidemiologic studies, such as case-controlled	17	week.
18	studies and cohort studies with appropriate follow-up,	18	Q. And based upon your does FDA allow anything
19	are usually employed to further examine potential	19	in a product label in the warnings or adverse reactions
20	association between a product and an adverse event.	20	section that is not supported by reasonable evidence of
21	Q. Okay. So you did say "usually employed" in your	21	a causal association?
22	report; right?	22	A. Generally speaking, no. That is the standard
23	A. Well, the FDA said that. And they're actually	23	for a warning and precaution.
24	not referring to the kind of insurance database studies	24	Q. And you said the some-basis standard related to
25	that I was jumping to the conclusion that we were	25	the adverse reactions portions of the label; right?
			Page 209
_			
1	talking about. They're talking about the typical the	1	A. Yes.
2	traditional types of case control and cohort studies	2	Q. And then I asked you about what the standard is
3	where they actually enroll patients in those studies	3	for the post-marketing experience section of the label
4	rather than just study their records.	4	and you suggested that the standard is the same; is that
5	Q. If you don't understand a question, feel free to	5	correct?
6	ask me to clarify it.	6	A. Yes. The adverse reactions section has two
7	A. Yes.	7	sections, one of them is adverse reactions from clinical
8	Q. Okay?	8	trials. And when they're controlled clinical trials,
9	A. I apologize if I misunderstood.	9	the basis to believe that there's a possible causal
10	Q. Isn't it true that FDA does not require that a	10	association is the fact that they're that the rates
11	causal relationship between a product and an event be	11	are different in one group than the other, although
12	proven before allowing it to be added to the product	12	sometimes they'll actually also include information
13	labeling?	13	showing comparisons of things where there's no
14	A. Yes, that's correct. The standard is reasonable	14	difference.
15	evidence of a causal association.	15	But, generally, where there is a difference,
	Q. That's the standard for what?	16	it's because there's more of the adverse event in the
16		17	drug than in, for example, the placebo arm.
16 17	A. That's the standard for a warning or precaution.		
	The standard for an adverse reaction is some basis to	18	The post-marketing experience section often
17		18 19	begins with, has been reported, and they list the things
17 18	The standard for an adverse reaction is some basis to believe there's a causal association.  Q. Some basis to believe.	19 20	begins with, has been reported, and they list the things that have been reported where there's some basis to
17 18 19 20 21	The standard for an adverse reaction is some basis to believe there's a causal association.	19 20 21	begins with, has been reported, and they list the things that have been reported where there's some basis to believe there's a causal association.
17 18 19 20	The standard for an adverse reaction is some basis to believe there's a causal association.  Q. Some basis to believe.  A. Yes. That's been the standard since 2006.  Q. And what's the standard for adding an event to a	19 20	begins with, has been reported, and they list the things that have been reported where there's some basis to
17 18 19 20 21	The standard for an adverse reaction is some basis to believe there's a causal association.  Q. Some basis to believe.  A. Yes. That's been the standard since 2006.	19 20 21	begins with, has been reported, and they list the things that have been reported where there's some basis to believe there's a causal association.

53 (Pages 206 to 209)

the evidence is a little different. One comes from a

clinical trial and the other comes from mostly

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A. Well, that is the standard: Some basis to

believe that there's a causal association.

Page 210

- 1 spontaneous reports and some, the literature.
- 2 Has pseudotumor cerebri been reported in
- 3 relation to Mirena?
- 4 Yes, it has. A.
- 5 Is there some basis to believe that there's a Q.
- 6 causal association?
- 7 In my opinion, no.
- 8 And you don't think that the Rai abstract
- 9 provides some basis of evidence of a causal association?
- 10 No, not as written, it does not.
- 11 Q. What's it going to take to satisfy you that
- there is some basis of -- for believing there's a causal 12
- 13 association between Mirena and PTC?
- 14 MR. SCHMIDT: Objection. Foundation.
- 15 THE WITNESS: If there was a study which could
- 16 demonstrate that the rate was higher than the background
- 17 rate after controlling for weight and recent weight
- 18 gain, then I think if there was an increased risk of --
- 19 that was unlikely to be due to chance, that would be
- 2.0 some basis to believe that there was reasonable evidence
- 21 of a causal association.
- 22 BY MR. JONES:
- 23 What do you define as recent weight gain?
- 24 Well, some of the case-controlled studies that
- 25 have looked at the role of obesity have shown that as a

Page 212

Page 213

- definition to use. But I don't -- sitting here today, I
- 2 don't know what that is.
- 3 Do you agree that not all patients who have PTC
- 4 experience a resolution of symptoms with weight loss?
- 5 I think that would probably be correct, yes.
- 6 FDA does not receive reports for every adverse
- 7 event or medication error that occur with a product;
- 8 correct?

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- 9 A. That's correct.
- 10 And many factors can influence whether or not an
  - event will be reported, such as the time the product has
- 12 been marketed and the publicity about an event; correct?
  - Yes, that's correct.
- 14 And are you aware of any publicity about the O.
- 15 connection between the potential association between
- 16 Mirena and pseudotumor cerebri?
- 17 I personally have not come across any publicity
  - about this. May be out there but I have not noticed
- 19 any.
- 20 So you can't testify or you're not giving an
- 21 opinion that publicity about the product or pseudotumor
- 22 cerebri contributed to an increase in reporting of
- 23 events involving Mirena and pseudotumor cerebri?
- 24 No, for this specific case, I don't know of any
  - publicity associated with the potential risk.

### Page 211

- 1 risk factor for recurrence, as little as 7 percent total
- 2 body -- total body weight is correlated with a -- is
- 3 correlated with recurrence.
  - And the authors also commented that weight loss of 7 percent also is about the average weight loss for
- 6 patients where loss of weight was associated with
- 7 resolution of the syndrome. So that's -- that would be
- 8 one, you know, criteria to start. If you had enough
- 9 information to document that kind of level of change,
- 10 then that would fit with the current literature.
- 11 Okay. You answered the weight gain part of it. 12 What do you define as recent?
- 13 I don't know if I have a working definition. It
- 14 would be recent in relationship to the development of
- 15 the PTC.

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- 16 Can you point me to any scientific literature
- 17 anywhere in the world that defines what recent is in
- 18 relation to recent weight gain and its risk factor --
- 19 I don't --
- 20 Q. -- for the development of PTC?
- 21 I don't recall how it was defined in the studies
- 22 where you used that term.
- 23 I would go back and look to what were the
- 24 definitions the authors used where they found it was a 25
  - risk factor and that would probably be a reasonable

- You agree that reporting of adverse events by
- physicians and patients is both voluntary and 2
- 3 spontaneous; correct?
- 4 A. Yes.
- 5 What's a disproportionality analysis?
- 6 It is a -- that's a term that's usually used to
- 7 describe an increased proportion of reports of a side
- 8 effect for one drug compared to other drugs reporting
- 9 that same side effect.
- 10 So if one drug, say, 2 percent of its side
- 11 effects were PTC and another drug was 1 -- and all other
- 12 drugs was 1 percent of the reports with PTC, that would 13 give you a reporting ratio of 2, you know, 2 percent
- 14 compared to 1 percent, and that -- one of the
- descriptions of that is a disproportionality analysis. 15
- 16 And I understand from your report that you don't
- 17 believe that a disproportionality analysis can establish 18
  - a causal association between an event and a drug;
- 19 correct?

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- 20 A. Yes, that's correct.
- 21 Okay. And wouldn't the converse be true as
  - well? A disproportionality analysis can't rule out a
- 23 causal relationship either, can it?
- 24 I would agree with that. Yes, I would agree A.
- 25 with it.

54 (Pages 210 to 213)

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#### Page 214

The analyses are used primarily to detect signals, and so it could be used to say there's no signal, but that's only indirect evidence about whether there's a potential relationship or not.

5 Other than checking the work of plaintiffs' 6 experts in this case, did you conduct your own

7 independent disproportionality analysis?

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8 For this case, for this -- and for this

9 condition, I -- what motivated me to do it was reading

10 the reports by the plaintiffs' experts, and that's when

11 I went to the database and repeated their analyses.

12 Okay. But you just repeated their analysis, you

13 didn't try to conduct your own analysis; correct?

14 Well, I ran variations on their analyses, not 15 all of which I think they reported.

> So, for example, I also looked to see what happened when you used the -- when you restricted the cases to women of childbearing potential, for example.

19 So I did something -- I did analyses that they 20 didn't do but I looked to see where their numbers came

21 from and then I did variations on their analyses.

22 Did you put those in your report?

23 A. Not all of them, no, I did not.

24 What database did you use?

25 I used OpenVigil, both 2.0, which Dr. Ross Page 216

control whose weight was between, you know, 33 and 37, you would be able to control for weight as a confounder

3 even though you didn't estimate the risk of weight by

4 using that design.

5 So control usually means that you've got the 6 variable in the patients that you're studying.

Sensitivity analysis means you've done a bunch of

8 hypothetical exercises to see what could have happened. 9

But you're -- maybe control was the wrong word. 10 You can account for confounding bias; correct?

11 Yeah, I'd say the controls account for it and

12 the modeling assesses it, assesses the potential, the

hypothetical role.

They're slightly different. I may be being too picky about the words. I think it's appropriate to after you've done an analysis where you were unable to measure confounders to try and model what the potential effects could be.

19 Have you ever used a sensitivity analysis in any

of the studies you've been involved in?

21 A. Yes.

22 So it's an accepted scientific method; correct?

MR. SCHMIDT: Objection. Vague.

THE WITNESS: Well, there are various methods 24 25

and they have their strengths and weaknesses. They're

#### Page 215

1 initially used, and 2.1, which Dr. Etminan used.

2 Q. When you're talking about case-controlled

3 studies, there is a way to control for confounders,

4 isn't there?

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5 MR. SCHMIDT: Objection. Vague.

THE WITNESS: There are methods to control for

7 confounding, yes.

MR. JONES: Okay.

9 BY MR. JONES:

10 And one would be a --

11 MR. SCHMIDT: Bless you.

BY MR. JONES: 12

13 Q. -- sensitivity analysis?

14 A. No. I think that's more an analysis of the

15 hypothetical effects of confounders.

> Usually if you say you've controlled for confounders, you've measured a confounding variable and you've adjusted for it in some way. You've either done

19 at multivariate analysis that includes both the drug and 20 a confounder so you'd, for example, simultaneously

21 estimate the risk of Mirena and weight and weight gain

22 or you control for confounding in the selection of your 23

controls.

24 So if you selected a case and you found that 25 that case had a BMI of, say, 35, and then you picked a

Page 217 the methods that are used to actually assess how robust

2 your result is, could your result be due to something

3 that you haven't measured or haven't accounted for.

4 BY MR. JONES:

5 Do you know Sebastian Schneeweiss,

S-C-H-N-E-E-W-E-I-S-S, at the Division of 6

7 Pharmacoepidemiology and Pharmacoeconomics at the

Brigham & Women's Hospital and Harvard Medical School? 8

9 I know of Dr. Schneeweiss. I think it's

10 Schneeweiss.

11 I'll take your word for it.

12 But I had trouble with the gender of Dr. Rai so

13 I'm not sure how good I am on people today.

14 But I know of him, yes.

Okay. And is Dr. Schneeweiss respected in the

16 field of pharmacoepidemiology?

17 Yes, I believe he is.

Okay. And are you aware of his "Sensitivity

19 Analysis and External Adjustment For Unmeasured

Confounders in Epidemiologic Database Studies of

21 Therapeutics"?

22 Yes. As I recall, Dr. Etminan may have

23 identified that paper as the source of the methods that

24 he used, and when he did that, I went and looked at that

25 paper. I didn't -- I'm looking to see if I referenced

55 (Pages 214 to 217)

#### Page 220 Page 218 1 that. And I may not have referenced it, but it should 1 how many contraceptives have compared themselves 2 directly to, you know, to Mirena -- then it becomes used 2 be in my total list, because I have that paper, I've 3 seen that paper. 3 as a control in other studies that the company doesn't 4 And if I understand it, you didn't have any 4 have access to. 5 5 problems with Dr. Schneeweiss's sensitivity analysis, So, for example, Mirena did a large 6 6 your problem was with the data that Dr. Etminan used to post-marketing study with 60,000 women comparing Mirena 7 7 users to copper IUD users so they had a lot of data plug into the Schneeweiss spreadsheet; correct? 8 8 MR. SCHMIDT: Object to form. about copper IUDs that were in study reports and things 9 THE WITNESS: Well, there are two issues. 9 but they weren't in the AERS database and they weren't 10 10 data that the copper IUD manufacturers had direct access I think Dr. Schneeweiss's method is a reasonable 11 11 method to assess the effect of a potential confounder. 12 12 There were sort of two issues with Dr. Etminan's Do you know whether or not Bayer has access to 13 the Norplant study data? 13 numbers. One is the numbers that he used. It depends 14 14 on which tables we're talking about from his report or A. I don't know. I don't know to what extent they 15 from his paper but, for example, when he was looking at 15 16 16 disproportionality, he was looking at reports rather I know that they have a follow-on product to 17 17 Norplant and that there's been -- but I'm not sure what than cases, and it's more important to look at cases 18 the relationship is with the companies in terms of 18 because reports -- there's almost two reports for every 19 exchange of data and exchange of original records with 19 case, so you just have a number of duplicates. 20 2.0 So that's one issue with the cases. And you respect to Norplant. It was originally brought to 21 21 market by Wyeth? should also, you know, be comparing to women and so 22 forth. So that's an issue with the tables. 22 Q. Is that what you think? 23 23 Well, let me look. Because I actually wrote But the other issue that I would have with Dr. 24 24 down -- I wrote up a bit about Norplant so hate to --Etminan is the range of values that he used to put in 25 MR. SCHMIDT: Objection to the memory test. 25 his modeling and in the way that he described the Page 219 Page 221 1 results of his analysis. 1 THE WITNESS: Hate to provide --2 2 So I had a number of issues with how Dr. Etminan MR. JONES: I didn't ask him a question. 3 applied Dr. Schneeweiss's methods but I don't have a 3 THE WITNESS: You didn't. You know, you didn't. 4 problem with Dr. Schneeweiss's methods themselves. 4 MR. SCHMIDT: You said, is that what you think? 5 BY MR. JONES: 5 THE WITNESS: Well --MR. SCHMIDT: I never object in the ether. 6 6 In going to Page 15 of your report, the last 7 7 sentence of the paragraph under Item Number 7 reads, MR. JONES: I didn't ask him a memory test. 8 8 MR. SCHMIDT: To be fair, this is about my while a manufacturer only has access to its own data, 9 FDA has access to data from all manufacturers relating 9 fourth objection today. 10 to the drug, which can often provide important adverse 10 THE WITNESS: Well, as I recall, Norplant was 11 event information. 11 not the original, but at the time that some of the 12 12 Did I read that correctly? issues around Norplant came up Wyeth-Ayerst was the NDA 13 13 Yes, you did. holder. 14 MR. JONES: Okay. 14 Okay. And isn't it true that Bayer has equal 15 access to FDA data? 15 BY MR. JONES: 16 No. They have access to the AERS database 16 Q. Have you ever heard of a company called Leiras 17 that -- but in the example I gave where, you know, a 17 Oy? 18 18 company might use another company's product in clinical A. Yes. 19 19 trials, clinical trials adverse events don't go into the And you would agree that Leiras Oy is now Bayer O. AERS database. 20 20 21 So when you're talking about data, you're 21 My understanding is that, yes, that Bayer --22 22 that that's now part of the Bayer family of companies. talking about clinical study data. 23 Well, I mentioned -- that's one of the sources 23 Okay. And did you know that Leiras Oy 24 24 here, but yes. I mean, the -- when a drug becomes a manufactured Norplant on behalf of Wyeth? 25 standard -- and I'm not sure there -- how many of them, 25 I think I did know that, yes.

56 (Pages 218 to 221)

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Page 222

- 1 Q. And did you know that Leiras Oy marketed
- 2 Norplant outside of the United States back in the '90s?
- 3 A. Yes, I did know that.
- 4 Q. Have you been provided in this case any adverse
- 5 event data related to Norplant from Bayer's lawyers?
- 6 A. I do have some information about the adverse
- 7 events and the literature, the medical literature, about
- 8 Norplant's safety as it relates to these cases and those
- 9 are cited in the report.
- 10 Q. Do you know what an Adverse Event Report is?
- 11 A. Yes.
- 12 Q. Have you been provided with any Adverse Event
- 13 Reports related to Norplant and pseudotumor cerebri by
- 14 Bayer's lawyers?
- 15 A. Not that I recall.
- 16 Q. Did you ask Bayer's lawyers for any of that
- 17 information?
- A. No, I did not. I reviewed the circumstances
- under which Norplant came to have a warning about
- 20 pseudotumor cerebri.
- 21 Q. Did you know that Wyeth sent out a
- dear-health-care-professional letter in the 1990s
- advising health-care professionals about the potential
- or advising physicians about the change to the label
- 25 adding pseudotumor cerebri?

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- appears in the product labeling, many factors other than
  - a true causal relationship between a drug and an event
- 3 may influence the labeling, such as some class effects,
  - litigation and publicity.
  - Did I read that correctly?
- 6 A. Yes.
  - Q. And what source are you citing for that?
- 8 A. Apologize that that isn't clear, but that is
  - a -- I believe that is a -- refers to the Levine
- article, which is Reference 36 in the end notes, and
  - that's just a -- it's a quote from the Levine article.
- 12 Q. And do you believe FDA allows events to be
- listed in product labeling when there is something other than a true causal relationship between a drug and an
  - than a true causal relationship between a drug and an
- event, such as litigation?
  - A. Well, that's an interesting question.
- The event is usually listed first and the
- 18 litigation comes later so -- so I can't think of a
- situation where litigation reports resulted in what was
- 20 the first notice of an adverse event and was the result
- 21 of a labeling change.
- Q. So you believe that an event listed in a label
  - usually leads to litigation?
- 24 A. No.
  - MR. SCHMIDT: Object to characterization.

#### Page 223

- 1 A. Yes, I'm aware of that.
- Q. Have you ever seen that
- 3 dear-health-care-professional letter?
- 4 A. I think I have, although I don't recall. But I
- 5 think I have. I'm familiar with the labeling change.
- 6 Q. Have you seen the dear-health-care provider
- 7 letter within the scope of your work on this case?
- 8 A. Well, that's when I would have seen it. I don't
- 9 recall sitting here if I've seen the letter. I'm
- 10 familiar with the labeling change.
- 11 Q. Okay. But you don't know whether you've seen
- 12 the letter or not?
- 13 A. I think I have, but I don't know for certain.
- Q. Did you ever ask Bayer's lawyers to provide you
- with that dear-health-care-provider letter?
- A. No, I didn't ask to see the letter. But I don't
- know if they sent it to me and that's -- if that's in
- the material that I've reviewed.
- 19 Q. You don't know whether it's on your reviewed or
- 20 relied upon list?
- A. I could look, but I don't know specifically if
- 22 it is or isn't.
- Q. In Footnote 10 of your report on Page 15 you
- say, you quote from a source and say, the authors go on
- 25 to comment, quote, even in the cases when the event

- Page 225
- MR. JONES: I was trying to figure out --
- THE WITNESS: No, I didn't say that. But where there are -- you know, FDA, for example, has written
  - about the situation with Accutane where they point out
- 5 in one year 97 percent of the reports were from
- 6 litigation reports and they were commenting on how that
- 7 made -- how that distorted disproportionality analyses
- 8 when there was a large number of litigation reports.
- 9 That was an FDA comment.
- 10 So they're -- but what I was saying was the
- opposite, which is I can't think of a situation where
- 12 litigation itself was the first reasonable evidence of a
- causal association that led to a labeling change.
- 14 Usually something leads to the labeling change. Some of
  - those -- some things in labeling do lead to lawsuits but
- 16 certainly not all.
- 17 BY MR. JONES:
- 18 Q. When you talk about litigation reporting, you're
- 19 talking about the company is reporting to FDA that
- 20 they're involved in litigation; isn't that correct?
- 21 A. That's right. Well, what they're reporting
- 22 is -- actually, what they do is they report the facts of
- 23 the case that are described in the legal document, which
- may be a Complaint, for example. As -- and then the source down at the bottom, the way FDA identifies those

57 (Pages 222 to 225)

#### David William Feigal, Jr., M.D., M.P.H. Page 228 Page 226 1 And you agree, don't you, that contraception 1 as a report from a lawyer is that many companies then 2 identify that the reporter was a lawyer. 2 choice is also a decision to be made by the individual 3 Well, I'll tell you something that has bothered 3 patient; correct? 4 4 me throughout this case is that it doesn't indicate that Yes, I agree with that. A. 5 5 You agree that labeling is the FDA's principal it is the defense lawyer, the company's lawyer, who is Q. 6 6 tool for educating health-care practitioners about the reporting that. 7 7 risks and benefits of approved products to help ensure Do you realize that? 8 8 MR. SCHMIDT: Object to the preamble. safe and effective use; correct? 9 THE WITNESS: Actually, I don't think that's the 9 Yes; both directly as prescribing information 10 10 case. I think that the reporter in that case is and then all of the promotional materials that are based 11 11 actually the attorney who's filed the Complaint. But, I on the labeling that are derived from the labeling. The 12 12 label plays an important role there. mean, that's my understanding of who the reporter is. And FDA-approved labels are supposed to be 13 13 The reporter is the person who sent in the information 14 14 balanced and accurate; correct? to Wyeth, not the people at Wyeth that evaluated the 15 15 information, which in a legal case would involve an That's the standard for promotional materials. 16 16 But, yes, labels, generally speaking, are going to be attorney. 17 17 BY MR. JONES: balanced and accurate. 18 Well, I've made no reports to FDA but I see that 18 And warnings describe serious adverse reactions 19 19 it's listed as a lawyer report in Bayer's documents and potential safety hazards, limitations in use imposed 20 20 by them, and steps that should be taken if adverse 21 21 A. Well, I think -reactions occur; correct? 22 MR. SCHMIDT: Object to lawyer testimony. 22 Yes, that's correct. 23 23 MR. JONES: How long have we been going on this THE WITNESS: -- the way that it would occur is 24 that if you made a compliant about a case, one, if they 24 tape? 25 can identify it as a case they already know about, if it 25 VIDEO OPERATOR: One hour, eight minutes. Page 229 Page 227 1 has new information, then they could file a new report 1 MR. JONES: Why don't we take a little break. 2 VIDEO OPERATOR: We are going off the record. 2 to the same ISR, the same study report, and say this is 3 a supplement. If it's a patient that they didn't 3 The time is 3:49 p.m. 4 previously know about, then they would -- the company's 4 (Recess, 3:49-4:01 p.m.) 5 5 practice would be to fill out the MedWatch form based on VIDEO OPERATOR: We are back on the record. 6 the information in the Complaint. 6 The time is 4:01 p.m. 7 7 BY MR. JONES: BY MR. JONES: 8 8 You agree -- I'm sorry. Dr. Feigal, welcome back. 9 Yeah. And the reporter then would be the 9 You note in your report that the Mirena 10 attorney who submitted the complaint because that's the 10 prescribing information label also contains information 11 source of the information about the patient. 11 for patients; is that correct? 12 Yes, there's a section that's called that. That 12 You agree that labeling is the key source to 13 13 assure safe use of a drug product; correct? section is actually written for doctors to give them 14 guidance on what to tell patients about. So it's not 14 I would agree with that. It's one of the most 15 important sources about the safety information about a 15 written to be given to patients but it's written for 16 product, yes. 16 doctors to give recommendations on what to include in 17 providing information about the product. 17 And a label is intended to provide physicians 18 And nothing in there warns of the potential of 18 with a clear and concise summary of the information 19 developing pseudotumor cerebri with Mirena usage; 19 necessary for the safe and effective use of the drug; 20 correct? 20 correct? 21 21 A. That's correct. Α.

58 (Pages 226 to 229)

Okay. And do you understand that there was also

a Patient Information Booklet that was also given to the

patients at the time of insertion?

22

23

24

25

A.

Yes.

22

23

24

25

correct?

A.

Yes, that's correct.

An FDA-approved label is intended to assist a

prescriber in making decisions for individual patients;

			r., M.D., M.P.H.
	Page 230		Page 232
1	Q. Okay. And that also contains no reference to	1	Q. Did someone insert these footnotes for you?
2	pseudotumor cerebri, does it?	2	A. No. This is all my this is all my own work.
3	A. That's correct. It does not.	3	Q. You wrote this report?
4	Q. Do you agree that before 2007, FDA had no	4	A. I did.
5	authority to order label changes?	5	Q. Do you agree that the importance of safe and
6	A. No, not exactly. They after 2007, they had	6	reliable contraception is beyond question?
7	very specific authority to order label changes with	7	A. Yes, I would agree.
8	certain time frames, but before that time, FDA had a	8	Q. Do you agree that several major categories of
9	number of ways that they would accomplish getting	9	contraceptives are widely available?
10	labeling changes that FDA felt were appropriate.	10	A. Yes, I would agree with that.
11	Q. Well, can you cite me to the specific authority	11	Q. Do you agree that several reversible drugs and
12	that allowed FDA to order label changes before 2007?	12	device contraceptive methods are available that are not
13	A. Yes. The authority is based on the misbranding,	13	hormonal?
14	that if FDA determines that a label is inadequate,	14	A. Yes. They vary in their effectiveness, but yes,
15	doesn't meet the labeling standards, then the product	15	there are several there are many options that women
16	must be revised to address the issue that FDA is	16	can choose from.
17	concerned about in order for it not to be misbranded.	17	Q. Are you aware of any Adverse Event Reports
18	So FDA generally didn't have to resort to	18	involving the copper IUD ParaGard and pseudotumor
19	actually actions against products. Part of what FDA	19	cerebri?
20	does with companies is communicate with them frequently	20	A. I do not I don't I'm not aware of any.
21	about changes that it asks the companies to evaluate and	21	No, I'm not.
22	incorporate in their labeling or make a proposal to them	22	Q. You mention in your report an ACOG bulletin that
23	as to what to do instead or why it may not be needed.	23	says that levonorgestrel IUDs may represent a
24	Q. Before 2007, if a product was misbranded, FDA	24	particularly sound choice. Does that sound correct?
25	could force the removal of the product from the market;	25	For obese women. Sorry.
	Page 231		Page 233
1	correct?	1	A. Yes, they yes, I did cite an ACOG document
2	A. They could. They could do most common	2	where the product is recommended for obese women.
3	regulatory action would be a product seizure. But yes,	3	
4	41	]	Q. Did you know that one of the ACOG bulletins that
	they could.	4	Q. Did you know that one of the ACOG bulletins that you cited to was prepared by a physician who is a Bayer
5	Q. But there was no specific legal authority before		
5 6	· ·	4	you cited to was prepared by a physician who is a Bayer
	Q. But there was no specific legal authority before	4 5	you cited to was prepared by a physician who is a Bayer consultant for Mirena?
6	Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?	4 5 6	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.
6 7	<ul> <li>Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?</li> <li>A. Not in the same way that it was written after 2007. But before that time, if you go through the</li> </ul>	4 5 6 7	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look
6 7 8	<ul> <li>Q. But there was no specific legal authority before</li> <li>2007 for FDA to order a label change; correct?</li> <li>A. Not in the same way that it was written after</li> <li>2007. But before that time, if you go through the records, you'll find any number of times where FDA sends</li> </ul>	4 5 6 7 8	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors
6 7 8 9	<ul> <li>Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?</li> <li>A. Not in the same way that it was written after 2007. But before that time, if you go through the</li> </ul>	4 5 6 7 8 9	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.
6 7 8 9	<ul> <li>Q. But there was no specific legal authority before</li> <li>2007 for FDA to order a label change; correct?</li> <li>A. Not in the same way that it was written after</li> <li>2007. But before that time, if you go through the records, you'll find any number of times where FDA sends companies labeling that it wants, sometimes class</li> </ul>	4 5 6 7 8 9	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.  BY MR. JONES:
6 7 8 9 10 11	Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?  A. Not in the same way that it was written after 2007. But before that time, if you go through the records, you'll find any number of times where FDA sends companies labeling that it wants, sometimes class labeling that almost always comes from FDA but	4 5 6 7 8 9 10	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.  BY MR. JONES:  Q. Do you think that there should be disclosures in
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6 7 8 9 10 11 12 13 14 15	Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?  A. Not in the same way that it was written after 2007. But before that time, if you go through the records, you'll find any number of times where FDA sends companies labeling that it wants, sometimes class labeling that almost always comes from FDA but also to address safety problems that have come to FDA's attention that the company may not even be aware of yet.  Q. Can you look at Page 18 of your report.  A. Yes.  Q. I want to point out that there's a difference in	4 5 6 7 8 9 10 11 12 13 14 15	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.  BY MR. JONES:  Q. Do you think that there should be disclosures in the ACOG bulletin if it was prepared by a Bayer consultant for Mirena?  A. Possibly. It depends on the circumstances of the relationship, the consulting relationship. Most
6 7 8 9 10 11 12 13 14 15	Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?  A. Not in the same way that it was written after 2007. But before that time, if you go through the records, you'll find any number of times where FDA sends companies labeling that it wants, sometimes class labeling that almost always comes from FDA but also to address safety problems that have come to FDA's attention that the company may not even be aware of yet.  Q. Can you look at Page 18 of your report.  A. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.  BY MR. JONES:  Q. Do you think that there should be disclosures in the ACOG bulletin if it was prepared by a Bayer consultant for Mirena?  A. Possibly. It depends on the circumstances of the relationship, the consulting relationship. Most journals have their own policies which they ask their
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6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?</li> <li>A. Not in the same way that it was written after 2007. But before that time, if you go through the records, you'll find any number of times where FDA sends companies labeling that it wants, sometimes class labeling that almost always comes from FDA but also to address safety problems that have come to FDA's attention that the company may not even be aware of yet.</li> <li>Q. Can you look at Page 18 of your report.</li> <li>A. Yes.</li> <li>Q. I want to point out that there's a difference in font between the body of the report and the footnotes.  Do you see that?</li> <li>A. Yes.</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.  BY MR. JONES:  Q. Do you think that there should be disclosures in the ACOG bulletin if it was prepared by a Bayer consultant for Mirena?  A. Possibly. It depends on the circumstances of the relationship, the consulting relationship. Most journals have their own policies which they ask their authors to follow so
6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?</li> <li>A. Not in the same way that it was written after 2007. But before that time, if you go through the records, you'll find any number of times where FDA sends companies labeling that it wants, sometimes class labeling that almost always comes from FDA but also to address safety problems that have come to FDA's attention that the company may not even be aware of yet.</li> <li>Q. Can you look at Page 18 of your report.</li> <li>A. Yes.</li> <li>Q. I want to point out that there's a difference in font between the body of the report and the footnotes.  Do you see that?</li> <li>A. Yes.</li> <li>Q. Okay. And why is that?</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.  BY MR. JONES:  Q. Do you think that there should be disclosures in the ACOG bulletin if it was prepared by a Bayer consultant for Mirena?  A. Possibly. It depends on the circumstances of the relationship, the consulting relationship. Most journals have their own policies which they ask their authors to follow so  Q. You mention in your report that LNG, levonorgestrel, is an active ingredient in 54 NDAs and
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. But there was no specific legal authority before 2007 for FDA to order a label change; correct?</li> <li>A. Not in the same way that it was written after 2007. But before that time, if you go through the records, you'll find any number of times where FDA sends companies labeling that it wants, sometimes class labeling that almost always comes from FDA but also to address safety problems that have come to FDA's attention that the company may not even be aware of yet.</li> <li>Q. Can you look at Page 18 of your report.</li> <li>A. Yes.</li> <li>Q. I want to point out that there's a difference in font between the body of the report and the footnotes.  Do you see that?</li> <li>A. Yes.</li> <li>Q. Okay. And why is that?</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you cited to was prepared by a physician who is a Bayer consultant for Mirena?  MR. SCHMIDT: Object to the characterization.  THE WITNESS: No, I don't know I didn't look to see in the document the disclosures from the authors of the bulletin.  BY MR. JONES:  Q. Do you think that there should be disclosures in the ACOG bulletin if it was prepared by a Bayer consultant for Mirena?  A. Possibly. It depends on the circumstances of the relationship, the consulting relationship. Most journals have their own policies which they ask their authors to follow so  Q. You mention in your report that LNG, levonorgestrel, is an active ingredient in 54 NDAs and ANDAs; is that correct?

59 (Pages 230 to 233)

75 separate product labels where LNG is an active

ingredient; is that correct?

A. Yes.

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and pasted from one document to another, sometimes the

formatting from the other document gets carried over. I

try to clean that up but --

	David William Feigal	l, J:	r., M.D., M.P.H.
	Page 234		Page 236
1	Q. Did you do any searches of either the FDA	1	reporting rate is actually having an adverse reaction in
2	database or the WHO database to determine how many	2	the labeling, as it is for Norplant.
3	Adverse Event Reports had been made alleging the	3	BY MR. JONES:
4	development of pseudotumor cerebri in relation to use of	4	Q. But there's no similar adverse reaction for
5	these 75 separate product labels?	5	pseudotumor cerebri in the Mirena label; correct?
6	A. The databases aren't organized that way. The	6	A. That's correct. And then you have to look at
7	databases are organized by the databases are	7	the relative use of the product. So a product could
8	organized by the drug and by the drug product name.	8	appear to have a large number of reports just by virtue
9	So you can separate out Mirena in your searches	9	of the fact that it has the majority of the uses of that
10	by searching on the drug product name, Mirena. If you	10	product.
11	search on levonorgestrel, you could identify the	11	Q. Can you tell me from your report how many
12	levonorgestrel combination birth-control pills by also	12	adverse reports there have been made in the FDA FAERS
13	specifying the estrogen component.	13	system for Mirena during the life of the product?
14	I did do searches initially of levonorgestrel	14	A. I don't know if I reported that. That is one of
15	alone for all products but because I was largely looking	15	the things in OpenVigil. It doesn't show the whole life
16	at the searches and with respect to Dr. Ross's and Dr.	16	of the product because I think OpenVigil goes back to
17	Etminan's work, I mostly focused on the Mirena reports.	17	2004, not all the way back to not all the way back to
18	Q. How many of the 75 separate products were	18	2000.
19	levonorgestrel combined with something else?	19	MR. JONES: Christina, will you help us find
20	A. Probably a very large number of them.	20	this?
21	Q. Most of them; right?	21	MS. NATALE: Uh-huh.
22	A. Probably. You can tell that by the number of	22	MR. JONES: It's 76.
23	generic birth-control pills that have been approved as	23	THE WITNESS: I mentioned in my report in
24	ANDAs.	24	OpenVigil there are 73,330 reports
25	Q. And when you go into the WHO database and	25	MR. JONES: Okay.
	Page 235		Page 237
1	search, as you noted, you can put in levonorgestrel;	1	THE WITNESS: associated with Mirena.
2	right?	2	BY MR. JONES:
3	A. Yes.	3	Q. So you used OpenVigil for that calculation?
4	Q. And the adverse event that you are interested	4	A. Yes.
5	in; correct?	5	Q. And how many reports were there for ParaGard?
6	A. Yes.	6	A. There are very few reports for ParaGard in that
7	Q. And the report, the output, will actually list	7	system.
8	the products that are associated with those reports;	8	I think that the challenge, and I don't know if
9	correct?	9	it's in my report, but that is the marketing period for
10	A. In the WHO, yes.	10	ParaGard.
11	Q. Okay. And did you try to determine how many	11	Q. Okay. At Page 44 of your report you say there
12	pseudotumor cerebri reports were listed in connection	12	were 73,330 Adverse Event Reports associated with
13	with other levonorgestrel-based products?	13	Mirena; correct?
14	A. No, I did not.	14	A. Yes.
15	Q. Would it surprise you to learn that if you were	15	Q. And then at Page 45 you say there were 2,266
16	to do a search like that, that Norplant and Mirena would	16	reports with ParaGard; correct?
17	have far, far, far more reports than any other	17	A. Yes. But pointing out that
18	levonorgestrel-based product?	18	Q. ParaGard was approved in 1984; correct?
19	MR. SCHMIDT: Objection. Foundation.	19	A. Yes, that's right.
20	THE WITNESS: I don't know if it would surprise	20	I mean, part of the point that I made was that
21	me or not.	21	this product had already been on the market for almost
22	I think I'm unaware of any protective effect	22	20 years before the OpenVigil database is collecting
I		1 22	things and the older meduate are linearin to have for

things, and the older products are known to have far,

far fewer reports than the products when they're first

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on the market.

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from the combination products, so it raises the question

one of the things that we know actually increases the

of why do some products get reports and others not? And

	Daga 220		Page 240
	Page 238		Page 240
1	Q. How far back does the OpenVigil data go?	1	would still come into the AERS database as reports of
2	A. I believe to 2004.	2	Mirena adverse experiences, so I would assume that the
3	Q. Is that just that you limited the search to 2004	3	European reports are actually in the FAERS database.
4	or is that the oldest data that's available in	4	Q. But you're just assuming that. You don't know.
5	OpenVigil?	5	A. Well, it's they're
6	A. That's the oldest data that's available in	6	MR. SCHMIDT: Object to form.
7	OpenVigil.	7	THE WITNESS: They actually can separate it out
8	Q. Are you sure about that?	8	by country because Dr. Ross's analysis did the U.S. I
9	A. No. I'd have to look at their website, but	9	tried to see what he was doing and looked at the U.S.,
10	that's what as I recall, that's what the numbers are	10	Dr. Etminan looked at the worldwide reports, as I
11	for OpenVigil.	11	recall, and I looked at the total in the world. But I
12	Q. But over the same time period that you searched	12	didn't try and separate out European reports.
13	there were approximately 35 times the number of adverse	13	BY MR. JONES:
14	events reported with Mirena than with ParaGard; correct?	14	Q. So my question is direct. Have you ever sat
15	A. Yes. That's not surprising for a new product	15	down at a database and searched to determine whether
16	compared to an old product.	16	there were any pseudotumor cerebri reports associated
17	Q. Do you Mirena has been on the market in the	17	with the usage of Levonova?
18	U.S. for 16 years now; is that correct?	18	MR. SCHMIDT: Object to the preamble. Asked and
19	A. Yes, that's correct.	19	answered.
20	Q. Okay. How many Adverse Event Reports have there	20	THE WITNESS: Not directly. I have searched for
21	been associated with Mirena in the last year?	21	the levonorgestrel irrespective of product that would
22	A. I didn't look that up.	22	have included Levonova but I did not look for Levonova
23	Q. Do you know whether the number of reports,	23	per se.
24	adverse reports, associated with Mirena have gone up or	24	BY MR. JONES:
25	gone down in the last year?	25	Q. Do you know how many different formulations of
	Page 239		Page 241
1	Page 239	1	Page 241
1	A. I didn't do that analysis.	1	Mirena there have been since it was first approved as
2	A. I didn't do that analysis.     Q. Do you know you write in your report that	2	Mirena there have been since it was first approved as Levonova in Finland in 1990?
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	Page 242		Page 244
1	MR. SCHMIDT: Object to characterization.	1	included information related to Norplant.
2	THE WITNESS: I don't know exactly, but during	2	Q. Did you know that in the hospitalization study
3	this time period, the use of IUDs in the U.S. dropped	3	section listing benign intracranial hypertension as a
4	markedly and many, many IUDs were withdrawn from the	4	target diagnosis that Bayer said or that the company at
5	market after the experience with the Dalkon Shield. So	5	that time said that benign intracranial hypertension was
6	there was a time period here where there was much less	6	known to be related to hormonal contraceptives?
7	interest in the IUD as a contraceptive method than there	7	MR. SCHMIDT: Objection. Foundation.
8	is today because of that experience.	8	THE WITNESS: I haven't seen that document and
9	BY MR. JONES:	9	I'm not aware that that study actually identified any
10	Q. Based upon your review of the NDA materials, you	10	cases or any study identified cases of benign
11	realize that Leiras Oy was also involved in seeking	11	intracranial hypertension at that time.
12	approval for Mirena in the United States; correct?	12	BY MR. JONES:
13	A. I don't recall the exact business relationship	13	Q. You've given opinions in this case that benign
14	between different partners. There were different	14	intracranial hypertension/pseudotumor cerebri is not
15	people different companies and different entities	15	related to hormonal contraceptives; correct?
16	involved with the product at different points in time.	16	A. Well, my opinion is specific to Mirena but I
17	Q. You write that FDA approved Mirena on	17	also I didn't really I don't have access to and I
18	December 6th, 2000, after 41 supplemental submissions;	18	don't think I don't know if the data the documents
19	is that correct?	19	exist to revisit the entire story with Norplant. But I
20	A. Yes.	20	think with what we know today about Norplant and its
21	Q. And did you read all 41 supplemental	21	follow-on products and pseudotumor cerebri, that that
22	submissions?	22	association doesn't meet the current standard for
23	A. No. I read their decision based on the review	23	reasonable evidence of causal association, even for
24	of that cumulative information.	24	Norplant.
25	Q. Did you know that in the period before Mirena	25	Q. Isn't it true that you write in your report that
	Page 243		Page 245
1	Page 243 was approved for use in the United States, that	1	Page 245 benign intracranial hypertension/pseudotumor cerebri is
1 2		1 2	
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#### Page 248 Page 246 1 assessments made in the 1990s based on the early as is the selection of the product that's going to be 2 Norplant experience that were the state of the knowledge 2 marketed. 3 3 BY MR. JONES: 4 What we know now, based on much more extensive 4 Q. You write at Page 24 of your report that IIH 5 5 most often presents in young women who are overweight or use of these products, is that the evidence that was the 6 6 basis for those opinions in 1990 hasn't been borne out. obese, although it is occasionally seen in children, 7 7 men, and older adults as well; is that correct? So I don't know what my opinion would have been 8 8 in 1990 and I'm not really offering an opinion about 9 whether the company's opinions were reasonable in 1990 9 Okay. And you agree that it's seen in much 10 10 lesser rates in children, men, and older adults; but, as we sit here today, I don't think there is 11 11 reasonable evidence for a causal association for 12 12 levonorgestrel and benign intracranial hypertension. Yes, that's correct. A. 13 Okay. And you agree that PTC/IIH is less common 13 BY MR. JONES: Q. in prepubescent females; correct? 14 You talk about 20 investigational trials at 14 15 15 Page 21 of your report. Yes, I believe that's correct. 16 16 Okay. And doesn't that suggest to you that Yes. Can you tell me what formulation of the product 17 there's a hormonal component to the development of the 17 18 18 was used in those 20 investigational trials? disease state? MR. SCHMIDT: Objection to formulation. 19 19 No, not necessarily. There are many 20 2.0 THE WITNESS: Not without going back and differences. There are many diseases which have a 21 21 predilection for men or for women that are not based on reviewing the summary data. But I'm quoting from the 22 summary that the studies that were the basis of the 22 hormonal differences between men and women and 23 safety database. 23 differences then in age groups that don't relate to the 24 24 hormonal changes in ages. So no, I don't think that's BY MR. JONES: 25 direct evidence that it's related to hormonal changes. 25 Q. Did you know that the marketed formulation was Page 247 Page 249 1 shown in Bayer's studies to actually have higher release 1 You talk about signs and symptoms of IIH/PTC 2 rates than the earlier formulations that were used in 2 include papilledema, headache, pulsatile noises, and 3 the pre-approval studies? 3 visual disturbances; is that correct? 4 MR. SCHMIDT: Object to foundation, 4 A. Yes 5 5 And did you review all Bayer Adverse Event 6 THE WITNESS: I don't know if that's correct or 6 Reports that included these terms? 7 7 not. I have not reviewed that information. No, I did not. 8 8 BY MR. JONES: You mentioned earlier in your experience at one 9 9 Did you review the NDA package in this case? of your pharmaceutical companies that you were familiar 10 MR. SCHMIDT: Asked and answered. 10 with a software system called Argus? THE WITNESS: Yes, I told you that I reviewed 11 11 A. Yes. 12 12 the overall summaries that described the basis for the Were you given access to Bayer's Argus system to 13 13 safety information and the efficacy information. Yes, I perform searches for this case? 14 14 did. No, I didn't feel that was necessary for me to 15 15 BY MR. JONES: develop my opinions. 16 Did you know that the information I've been 16 You don't contend that obesity causes 17 questioning you about about the different formulations 17 pseudotumor cerebri, do you? 18 was in the NDA package? 18 I would describe that as a causal association. 19 MR. SCHMIDT: Same objection. 19 It's -- it -- there could be something about obesity and 20 THE WITNESS: It wouldn't surprise me. The 20 about the changes in the body associated with obesity 21 21 safety information in an NDA is based on all that is the underlying cause but I don't think the 22 formulations and all doses that are used during the 22 mechanism is actually well understood. 23 investigation of the product, so most NDAs will contain 23 Is that something that happens in the body, is 24 safety information about a variety of different doses 24

No, there's things that happen in the body that

and exposures and all of that information is considered,

25

25

	Page 250		Page 252
1	aren't hormonal.	1	smoker.
2	Q. What percentage of obese or overweight women	2	Q. And if I get lung cancer, stopping smoking is
3	develop PTC?	3	not going to make the lung cancer go away, is it?
4	A. Well, I think the rates that you know, the	4	A. In the case of lung cancer, stopping smoking
5	rates in the general population are thought to be one to	5	will not make it go away. That's correct.
6	two per hundred thousand and the rates in obese women of	6	Q. You say that at Page 24, due to increases in
7	childbearing potential are as high as 20 per hundred	7	obesity, since those data were generated several decades
8	thousand.	8	ago and because obesity has dramatic because obesity
9	Q. So a very small percentage of women of	9	dramatically increases the risk for IIH, the incidence
10	childbearing age who are overweight or obese ultimately	10	rate is likely higher today.
11	develop PTC; correct?	11	Did I read that correctly?
12	A. Yes, that's correct.	12	A. Yes.
13	Q. But you believe there's a causal association	13	Q. Okay. And can you point me to any scientific
14	between obesity and overweight and PTC?	14	studies anywhere that show that the incidence rate of
15	A. Yes. When we say the word "association," it	15	PTC is higher today because of increases in obesity?
16	means causation hasn't been proven, but that gives you a	16	A. No. It's an indirect conclusion. We know the
17	risk factor that increases the risk, you know, 10- to	17	obesity proportion of the population that's obese is
18	20-fold. That's greater than the risk of cigarettes for	18	higher than it's been in the past and we know that
19	lung cancer.	19	obesity, the prevalence in obesity is higher; therefore,
20	Q. Let's talk about cigarettes and lung cancer.	20	the prevalence in the population which has more obesity
21	Is there an established pattern of development	21	will have a higher prevalence.
22	of lung cancer with cigarette smokers?	22	Q. What percentage of the U.S. population is obese
23	A. Well, I think the epidemiology is well stood, if	23	or overweight?
24	that understood, if that's what you mean by pattern,	24	A. Obese or overweight, overweight is usually
25	yes.	25	defined with a BMI of 25 and obese at 30 and more
		1	
	Page 251		Page 253
1	Page 251  Q. No. I'm talking about a temporal pattern.	1	Page 253 serious obesity at a BMI of 35.
1 2		1 2	
	Q. No. I'm talking about a temporal pattern.		serious obesity at a BMI of 35.
2	<ul><li>Q. No. I'm talking about a temporal pattern.</li><li>A. Well, the temporal relationship is that smokers'</li></ul>	2	serious obesity at a BMI of 35.  Actually, I don't remember the exact number. I
2	<ul> <li>Q. No. I'm talking about a temporal pattern.</li> <li>A. Well, the temporal relationship is that smokers' risk increases steadily with duration of use, which is</li> </ul>	2 3	serious obesity at a BMI of 35.  Actually, I don't remember the exact number. I know the number that is overweight or obese is more than
2 3 4	<ul> <li>Q. No. I'm talking about a temporal pattern.</li> <li>A. Well, the temporal relationship is that smokers' risk increases steadily with duration of use, which is temporal, and also amount of use.</li> </ul>	2 3 4	serious obesity at a BMI of 35.  Actually, I don't remember the exact number. I know the number that is overweight or obese is more than half the population.
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		1	
	Page 254		Page 256
1	spontaneous resolution of their IIH?	1	opinion about that.
2	A. No, I don't.	2	I can recall in the case-controlled studies, in
3	Q. Do you know scientifically the reason why one	3	one case-controlled study where they identified
4	would experience spontaneous resolution of IIH?	4	patients, approximately half of them were patients with
5	A. No. I know it's a situation it's a it's	5	recurrences and the other half had never had a
6	one of the conditions that waxes and wanes and sometimes	6	recurrence after the resolution. But I don't know if
7	recurs but I don't know if we know the reasons for why	7	that's representative.
8	it can spontaneously resolve without treatment.	8	Q. You mentioned that oh, strike that.
9	Q. And it resolves sometimes after a patient	9	At Page 25 you talk about the IIH warning was
10	receives a lumbar puncture, which is a diagnostic tool	10	added to Norplant based on a small number of case
11	for determining whether one has PTC; correct?	11	reports?
12	A. That's correct.	12	A. Yes.
13	Q. Does it completely resolve in those patients or	13	Q. Okay. How many is a small number?
14	does it sometimes just provide temporary relief?	14	A. Well, I think I walk through in Section 1, which
15	A. I think it's variable.	15	begins on the bottom of 26, the evidence, beginning with
16	Q. And you would agree with me, wouldn't you, that	16	two reports and then in 1995 two additional reports and
17	there are patients who have developed PTC that will have	17	then reports by Alder, who identified 56 cases, although
18	it permanently, regardless of whether their they lose	18	it's not clear that they're all IIH because he included
19	weight or not?	19	disk edema alone, which may or may not have been may
20	MR. SCHMIDT: Objection. Vague.	20	not have been pseudotumor cerebri. But these were the
21	THE WITNESS: I'm not sure what you mean by	21	cases that resulted in the Norplant warning.
22	permanently. There are neurologic complications in some	22	Q. Do you know when the Norplant warning was added
23	patients that are permanent, that persist, so in that	23	to the label?
24	sense, the condition can have permanent effects, yes.	24	A. 1992, I believe.
25		25	Q. Okay. And you were just talking about, I asked
	Page 255		Page 257
1	Page 255 BY MR. JONES:	1	
1 2	BY MR. JONES:	1 2	you about the small number of case reports and you were
	BY MR. JONES:		
2	BY MR. JONES: Q. Are you aware of any cure for PTC?	2	you about the small number of case reports and you were citing to 1995 articles; right?
2 3	BY MR. JONES: Q. Are you aware of any cure for PTC? A. Well, I guess I don't think of it as a disease	2 3	you about the small number of case reports and you were citing to 1995 articles; right?  A. Well, that's right. I think there were much
2 3 4	BY MR. JONES: Q. Are you aware of any cure for PTC? A. Well, I guess I don't think of it as a disease that has a cure or not a cure. It has treatments that	2 3 4	you about the small number of case reports and you were citing to 1995 articles; right?  A. Well, that's right. I think there were much fewer than that. So initially, it was based on a very
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David William Feigal, Jr., M.D., M.P.H.

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1	publicized, we're still dealing with, at most, the 70	1 way back to 2002, there had been reports of idiopathic
2	cases and the cases at the time of the labeling had to	2 intracranial hypertension in Norplant System users.
3	be some smaller set of that 70.	3 A. Yes, that's correct.
4	Q. Okay. Because it was changed three years	4 Q. A cardinal sign of idiopathic intracranial
5	earlier.	5 hypertension is papilledema. Early symptoms may include
6	A. Yes, that's right.	6 headache associated with a change in frequency, pattern,
7	Q. So you're concluding that it was something	7 severity or persistence. Of particular importance are
8	substantially less than 70 when Wyeth proposed this	8 those headaches that are unremitting in nature and
9	labeling change; right?	9 visual disturbances.
10	A. Yes.	10 Do you agree with that?
11	MR. SCHMIDT: Object to characterization.	11 A. Yes, I think that's correct.
12	THE WITNESS: Well, and there's nothing in the	12 Q. Okay. Patients with these symptoms,
13	literature that describes a larger number of cases.	particularly obese patients or those with recent weight
14	BY MR. JONES:	gain, should be screened for papilledema and, if
15	Q. And today you're aware that there are well over	present, the patient should be referred to a neurologist
16	100 cases of PTC/IIH reported in association with	16 for further diagnosis and care.
17	Mirena; right?	Do you agree with that?
18	A. Yes, that's correct.	18 A. Yes, generally.
19	Q. Okay. And you're not aware of any efforts by	19 Q. What do you not agree with in that sentence?
20	Bayer to go to the FDA and propose a labeling change to	20 A. I think it's just a matter of medical judgment
21	add IIH/PTC; correct?	when you screen a patient for papilledema. Many of
22	A. Well, that's correct.	these symptoms are nonspecific and so it would really
23	I think those are the number of cases that have	depend on the patient's history. But, generally
24	been acquired over all of the use since the product has	speaking, I think that's reasonable advice.
25	been on the market and reflects a very different	25 Q. Yeah. It's not wrong to tell doctors that if
	Page 259	Page 261
1	Page 259 situation than the labeling decisions that were made	Page 261  1 you see these symptoms in your patients, particularly
1 2		
	situation than the labeling decisions that were made	you see these symptoms in your patients, particularly
2	situation than the labeling decisions that were made when Norplant was relatively new to the market.	<ul> <li>you see these symptoms in your patients, particularly</li> <li>obese patients or those with recent weight gain, to</li> </ul>
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2 3 4	situation than the labeling decisions that were made when Norplant was relatively new to the market.  Q. Okay. Let's look at, you cite the label change starting at Page 25 and going to Page 26. Okay?  A. Yes.  Q. And it says, "Idiopathic Intracranial	<ol> <li>you see these symptoms in your patients, particularly</li> <li>obese patients or those with recent weight gain, to</li> <li>screen them for a serious condition. That's not</li> <li>unreasonable, is it?</li> <li>A. No, it's not unreasonable.</li> <li>Q. And then the final part of the Norplant label</li> </ol>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	situation than the labeling decisions that were made when Norplant was relatively new to the market.  Q. Okay. Let's look at, you cite the label change starting at Page 25 and going to Page 26. Okay?  A. Yes.  Q. And it says, "Idiopathic Intracranial Hypertension," and then beginning with the first sentence, idiopathic intracranial hypertension (pseudotumor cerebri, benign intracranial hypertension) is a disorder of unknown etiology which is seen most commonly in obese females of reproductive age.  Do you agree with that?  A. Yes, you read that correctly.  Q. Okay. Do you agree with that statement, though?  A. Yes.  Q. Okay. There have been reports of intracranial hypertension there have been reports of idiopathic intracranial hypertension in Norplant System users.  Do you agree with that?  A. Yes, there were reports.  Q. Okay. And do you agree that, as we sit here today, there have been reports of idiopathic	you see these symptoms in your patients, particularly obese patients or those with recent weight gain, to screen them for a serious condition. That's not unreasonable, is it?  A. No, it's not unreasonable. Q. And then the final part of the Norplant label says, Norplant System should be removed from patients experiencing this disorder. Do you agree with that?  A. Well, that's what the statement says. I in hindsight, looking back at that, we know now that the IIH resolves in patients when you leave it in and there's other patients when you take it out and they're given other treatments, it resolves in them as well. It's not clear to me, sitting here today, that that is still a well-founded recommendation. Q. If you had a patient come to you that had PTC/IIH that had the Norplant System in there, would you recommend removal?  MR. SCHMIDT: Objection. Foundation, incomplete hypothetical.  THE WITNESS: I think it would this was

66 (Pages 258 to 261)

	Page 262		Page 264
1	might be very reasonable to treat the patient and see if	1	Number 4.
2	the symptoms resolve.	2	We are back on the record at 5:05 p.m.
3	BY MR. JONES:	3	BY MR. JONES:
4	Q. What do we know now that makes it safe to leave	4	Q. Dr. Ellman (sic), we're back on the record.
5	a Norplant System in a patient who's experiencing PTC?	5	Can you go to Page 41 of your report.
6	MR. SCHMIDT: Object to characterization.	6	A. Okay.
7	THE WITNESS: Well, what we know now is that the	7	Q. Okay. The first full paragraph, third sentence,
8	sparsity of reports, despite 30 years of use and	8	you say, Bayer reasonably and appropriately decided that
9	millions and millions of patients of use, is that, you	9	the Norplant label should be used only on a case-by-case
10	know, based on this initial prediction, had it been	10	basis when scientific evidence demonstrated its
11	correct, this should have been an ongoing and, you know,	11	applicability to Mirena, and then there's a Footnote 69.
12	management problem with patients taking levonorgestrel	12	Do you see that?
13	and yet for the products that come out further I	13	A. Yes.
14	mean, you see this if you just even look at the U.S.	14	Q. Okay. And then if you go down to Footnote 69,
15	reports in the OpenVigil database system. We have 24	15	the label on the document is MIR JR 00186491.
16	reports in ten years of experience and we have reports	16	Did I read that correctly?
17	of patients whose symptoms resolve when the Mirena is	17	A. Yes.
18	not removed.	18	Q. Okay.
19	So I think that's a little categorical and I	19	MR. JONES: I'm going to hand this to the court
20	think it's an individual decision that should be made	20	reporter to be marked as Deposition Exhibit 7.
21	between the patient and the physician.	21	(Exhibit Feigal-7 was marked for
22	BY MR. JONES:	22	identification.)
23	Q. You read the literature that you cited about	23	BY MR. JONES:
24	Norplant, the Norplant experience; correct?	24	Q. Is the document that I handed you, on the front
25	A. Yes.	25	page does that say MIR JR 00186491?
23	A. 165.	25	page does that say WIIK_JK_00160491?
	5 063		
	Page 263		Page 265
1		1	Page 265  A. Yes, it does.
1 2	Q. And you agree with me that in that, in that	1 2	A. Yes, it does.
	Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter,	1	<ul><li>A. Yes, it does.</li><li>Q. Okay. And is that the document cited in</li></ul>
2	Q. And you agree with me that in that, in that	2	A. Yes, it does.
2	Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter, those cite to patients that the symptoms went away when	2 3	<ul><li>A. Yes, it does.</li><li>Q. Okay. And is that the document cited in Footnote 69 of your report?</li></ul>
2 3 4	<ul><li>Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter, those cite to patients that the symptoms went away when the Norplant was removed; right?</li><li>A. Yes. But we know now that when Mirena is left</li></ul>	2 3 4	<ul> <li>A. Yes, it does.</li> <li>Q. Okay. And is that the document cited in Footnote 69 of your report?</li> <li>A. Yes.</li> <li>Q. Okay. And can you point me to where in this</li> </ul>
2 3 4 5	Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter, those cite to patients that the symptoms went away when the Norplant was removed; right?  A. Yes. But we know now that when Mirena is left in place, which is, you know, another source of	2 3 4 5	<ul> <li>A. Yes, it does.</li> <li>Q. Okay. And is that the document cited in Footnote 69 of your report?</li> <li>A. Yes.</li> <li>Q. Okay. And can you point me to where in this document it mentions Norplant?</li> </ul>
2 3 4 5 6	<ul><li>Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter, those cite to patients that the symptoms went away when the Norplant was removed; right?</li><li>A. Yes. But we know now that when Mirena is left</li></ul>	2 3 4 5 6	<ul> <li>A. Yes, it does.</li> <li>Q. Okay. And is that the document cited in Footnote 69 of your report?</li> <li>A. Yes.</li> <li>Q. Okay. And can you point me to where in this document it mentions Norplant?</li> <li>MR. SCHMIDT: I'll object to the premise of this</li> </ul>
2 3 4 5 6 7	Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter, those cite to patients that the symptoms went away when the Norplant was removed; right?  A. Yes. But we know now that when Mirena is left in place, which is, you know, another source of levonorgestrel, that the patients will often improve	2 3 4 5 6 7	<ul> <li>A. Yes, it does.</li> <li>Q. Okay. And is that the document cited in Footnote 69 of your report?</li> <li>A. Yes.</li> <li>Q. Okay. And can you point me to where in this document it mentions Norplant?</li> </ul>
2 3 4 5 6 7 8	<ul> <li>Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter, those cite to patients that the symptoms went away when the Norplant was removed; right?</li> <li>A. Yes. But we know now that when Mirena is left in place, which is, you know, another source of levonorgestrel, that the patients will often improve even when it's left in place.</li> </ul>	2 3 4 5 6 7 8	<ul> <li>A. Yes, it does.</li> <li>Q. Okay. And is that the document cited in Footnote 69 of your report?</li> <li>A. Yes.</li> <li>Q. Okay. And can you point me to where in this document it mentions Norplant?  MR. SCHMIDT: I'll object to the premise of this question.</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. And you agree with me that in that, in that literature, the Wysowski article, the Oliver letter, those cite to patients that the symptoms went away when the Norplant was removed; right?</li> <li>A. Yes. But we know now that when Mirena is left in place, which is, you know, another source of levonorgestrel, that the patients will often improve even when it's left in place.</li> <li>Q. More often if you've looked at the documents, more often, isn't it true that patients actually have a resolution of symptoms after the Mirena is removed? MR. SCHMIDT: Object to foundation. THE WITNESS: Well, again, there are very few patients you can interpret that that's due to the Mirena removal because that's not all that's done. They're also treated with lumbar punctures and with diuretics. So my interpretation of the evidence is that the symptoms resolve whether you remove the Mirena or not. MR. JONES: Okay. We have to take a break. We'll pick back up there when we come back. VIDEO OPERATOR: This is the end of Media Number 3.</li></ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes, it does. Q. Okay. And is that the document cited in Footnote 69 of your report? A. Yes. Q. Okay. And can you point me to where in this document it mentions Norplant? MR. SCHMIDT: I'll object to the premise of this question. MR. JONES: Can you be more specific? Maybe I can fix it. MR. SCHMIDT: Yeah. I think you're citing the wrong document from his report. MR. JONES: And why do you say that? MR. SCHMIDT: Because I think what he's using for the Norplant proposition is 70. MR. JONES: It cites Footnote 69 for the sentence that I read. THE WITNESS: Well, I think this is the document that lays out the labeling strategy and then 70 I think is a quote from a Bayer document where it's discussing a risk factor that is in Norplant. BY MR. JONES:

	Page 266		Page 268
1	scientific evidence demonstrated its applicability to	1	manufacturing and controls are relevant to what I was
2	Mirena, Footnote 69; correct?	2	reviewing.
3	A. Yes.	3	But I think the document does show that they're
4	Q. Okay. So tell me where in this document it	4	taking labeling from other labeling, and then when you
5	mentions the word "Mirena."	5	look at the other document where I have a direct quote,
6	MR. SCHMIDT: Same objection.	6	you can see that it does relate to Norplant.
7	THE WITNESS: Oh. Well, I think you meant	7	Q. I just wanted to make sure you were you're
8	Norplant.	8	not using this document to say that Bayer reasonably and
9	MR. JONES: Or Norplant.	9	appropriately decided that the Norplant label should be
10	THE WITNESS: Yes.	10	used only on a case-by-case basis when scientific
11	It does not. These two sentences go together	11	evidence demonstrated its applicability to Mirena.
12	and the two footnotes and the two documents go together.	12	MR. SCHMIDT: Object to characterization.
13	So the first document lays out the labeling team	13	THE WITNESS: Well, I think the document does
14	and the strategy and shows the deliberate way in which	14	show. I mean, the product is redacted, but if you look
15	they were approaching the labeling and then Document 70	15	at the other document and we trace it back to Norplant,
16	is actually a specific reference to a Norplant warning	16	they are basing it on another label, and that's what
17	that they're considering for Mirena.	17	this document shows and that's what I've said in that
18	BY MR. JONES:	18	sentence.
19	Q. Well, isn't conventional use of a citation	19	BY MR. JONES:
20	something to support the proposition that you've just	20	Q. So are you concluding that this redaction and
21	laid out in the sentence that you're citing to?	21	the it was proposed to follow the redacted label with
22	A. Yes.	22	respect to, are you concluding that it says Norplant
23	MR. SCHMIDT: Objection.	23	under that redaction box?
24	BY MR. JONES:	24	A. As I recall I don't have the other document
25	Q. Can you do you see can you flip to	25	in front of me, but the other document is a specific
	Q. Can you do you see can you mp to	23	in front of file, but the other document is a specific
	Page 267		Page 269
1	Page 267 MIR_JR_00186492.	1	
1 2		1 2	Page 269 example of a Norplant issue that they are looking at and it's an example of their case-by-case examination of the
	MIR_JR_00186492.		example of a Norplant issue that they are looking at and
2	MIR_JR_00186492.  MR. SCHMIDT: Can you give me that number again?	2	example of a Norplant issue that they are looking at and it's an example of their case-by-case examination of the
2	MIR_JR_00186492.  MR. SCHMIDT: Can you give me that number again?  MR. JONES: MIR_JR_00186492.	2 3	example of a Norplant issue that they are looking at and it's an example of their case-by-case examination of the Norplant warnings and not just and issues in Norplant
2 3 4	MIR_JR_00186492.  MR. SCHMIDT: Can you give me that number again?  MR. JONES: MIR_JR_00186492.  MR. SCHMIDT: Thank you.	2 3 4	example of a Norplant issue that they are looking at and it's an example of their case-by-case examination of the Norplant warnings and not just and issues in Norplant and not just accepting or rejecting all of them.
2 3 4 5	MIR_JR_00186492.  MR. SCHMIDT: Can you give me that number again?  MR. JONES: MIR_JR_00186492.  MR. SCHMIDT: Thank you.  MR. JONES: The second page of the document, on	2 3 4 5	example of a Norplant issue that they are looking at and it's an example of their case-by-case examination of the Norplant warnings and not just and issues in Norplant and not just accepting or rejecting all of them.  They're making their decisions on a scientific basis.
2 3 4 5 6	MIR_JR_00186492.  MR. SCHMIDT: Can you give me that number again?  MR. JONES: MIR_JR_00186492.  MR. SCHMIDT: Thank you.  MR. JONES: The second page of the document, on the back side.	2 3 4 5 6	example of a Norplant issue that they are looking at and it's an example of their case-by-case examination of the Norplant warnings and not just and issues in Norplant and not just accepting or rejecting all of them.  They're making their decisions on a scientific basis.  Q. Let's switch gears a little bit.
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David William Feigal, Jr., M.D., M.P.H.

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1	of its resources is in the review process.	staffing in some areas, for improving computer systems.
2	Q. Based upon your experience at FDA, did you ever	2 There's other areas. Those are just a couple that I
3	feel as though there was a lack of adequate resources	3 recall that were identified in the report.
4	that rose to the level of being a crisis for the FDA?	4 MR. JONES: Can we mark that as Deposition
5	A. No.	5 Exhibit 8.
6	Q. Do you remember being involved in an American	6 (Exhibit Feigal-8 was marked for
7	course on drug development and regulatory sciences at	7 identification.)
8	the Mission Bay Conference Center at UCSF?	8 BY MR. JONES:
9	A. Yes.	9 Q. What's been handed to you is the FDA Science and
10	Q. Okay. And your wife also you were a faculty	10 Mission at Risk report of the Subcommittee on Science
11	member at that conference; correct?	and Technology prepared for the FDA Science Board dated
12	A. That's right. My wife was the course director,	12 November 2007; is that correct?
13	and I still teach in that that course is still	13 A. Yes.
14	ongoing. It's jointly taught by FDA and UC-San	14 Q. And you've seen this report before; right?
15	Francisco. And actually, there's a session next week	15 A. I have.
16	where I'm giving two lectures.	16 Q. Okay. And let's go, can we flip over to the
17	Q. Okay. And you were involved in a section called	17 it's the fourth page in that set but it's labeled little  18 I. little I. little I.
18 19	"The Global Registration and Approval Process"; correct?  A. I don't recognize that title but	, ,
20	A. I don't recognize that title but     Q. Okay. Well, let me try to refresh your	, ,
21	recollection.	20 Q. See where it says "FDA Mission Statement"? 21 A. Yes.
22	A. Okay.	22 Q. Okay. It reads, the FDA is responsible for
23	Q. Some of the lectures given as part of that were	23 protecting the public health by assuring the safety,
24	the history of regulation of drugs and biologics, U.S.,	24 efficacy, and security of human and veterinary drugs,
25	U.K., Germany, and Japan, FDA regulatory pathways, INDs,	25 biological products, medical devices, our nation's food
	,,-,,, F,-,-,,	
	Page 271	Page 273
1	Page 271 EINDs, NDAs, BLAs, 505 B1, 505 B2, and ANDAs, EMA and EU	Page 273  1 supply, cosmetics, and products that emit radiation.
1 2		
	EINDs, NDAs, BLAs, 505 B1, 505 B2, and ANDAs, EMA and EU	supply, cosmetics, and products that emit radiation.
2	EINDs, NDAs, BLAs, 505 B1, 505 B2, and ANDAs, EMA and EU registration procedures, centralized procedure, mutual	<ul> <li>supply, cosmetics, and products that emit radiation.</li> <li>The FDA is also responsible for advancing the public</li> </ul>
2	EINDs, NDAs, BLAs, 505 B1, 505 B2, and ANDAs, EMA and EU registration procedures, centralized procedure, mutual recognition procedure, and decentralized procedure.	<ol> <li>supply, cosmetics, and products that emit radiation.</li> <li>The FDA is also responsible for advancing the public</li> <li>health by helping to speed innovations that make</li> </ol>
2 3 4	EINDs, NDAs, BLAs, 505 B1, 505 B2, and ANDAs, EMA and EU registration procedures, centralized procedure, mutual recognition procedure, and decentralized procedure.  There were also presentations on FDA's critical path	supply, cosmetics, and products that emit radiation.  The FDA is also responsible for advancing the public health by helping to speed innovations that make medicines and foods more effective, safer, and more affordable and helping the public get the accurate, science-based information they need to use medicines and
2 3 4 5	EINDs, NDAs, BLAs, 505 B1, 505 B2, and ANDAs, EMA and EU registration procedures, centralized procedure, mutual recognition procedure, and decentralized procedure.  There were also presentations on FDA's critical path initiative.  Have you ever heard of that before?  A. Yes, I was there when that program was	supply, cosmetics, and products that emit radiation.  The FDA is also responsible for advancing the public health by helping to speed innovations that make medicines and foods more effective, safer, and more affordable and helping the public get the accurate,
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69 (Pages 270 to 273)

		1	
	Page 274		Page 276
1	institution in this country, touches the lives, health,	1	Did I read that correctly?
2	and well-being of all Americans and is integral to the	2	A. You did read it correctly.
3	nation's economy and its security.	3	Q. Okay. The Subcommittee found that the
4	Do you agree with that?	4	deficiency has two sources: The demands on the FDA have
5	A. Yes, I do.	5	soared due to the extraordinary advance of scientific
6	Q. Okay. Going down to the fourth paragraph, the	6	discoveries, the complexity of the new products, and
7	FDA is also central to the economic health of the	7	claims submitted to FDA for premarket review and
8	nation, regulating approximately \$1 trillion in consumer	8	approval, the emergence of challenging safety problems,
9	products or 25 cents of every consumer dollar expended	9	and the globalization of the industries that FDA
10	in this country annually.	10	regulates.
11	Do you agree with that?	11	Did I read that correctly?
12	A. Yes.	12	A. Yes, you did.
13	Q. Go to the next page. It begins, thus, the	13	O. And next it reads, the resources have not
14	nation is at risk if FDA science is at risk.	14	increased in proportion to the demands. The result is
15	Do you agree that the nation is at risk if FDA	15	that the scientific demands on the agency far exceed its
16	science is at risk?	16	capacity to respond. The imbalance is imposing a
17	A. Generally speaking, that's true. I think you	17	significant risk to the integrity of the food, drug,
18	have to get much more specific.	18	cosmetic, and device regulatory system and, hence, the
19	And, in fact, when you look at the risks they're	19	safety of the public.
20	talking about, they lead off with the need to improve	20	Did I read that correctly?
21	the science in the food science area and food safety	21	A. Yes, you did.
22	because there's approximately 50,000 deaths a year from	22	Q. Okay. Let's go to the next page, "1.2 Major
23	food poisoning and food contamination.	23	Findings."
24	So there are very specific examples that are	24	Do you read see that?
25	given in the report. I think you need to look at the	25	A. Yes.
	given in the reports 1 times you need to look at the		
	Page 275		Page 277
1	Page 275	1	Page 277
1	report examples rather than to	1	Q. Okay. Below that, the Subcommittee found
2	report examples rather than to Q. But	2	Q. Okay. Below that, the Subcommittee found substantial weaknesses across the agency, with the
2	report examples rather than to Q. But A accept the broad premise that the nation is	2 3	Q. Okay. Below that, the Subcommittee found substantial weaknesses across the agency, with the possible exception of some drug and medical device
2 3 4	report examples rather than to Q. But A accept the broad premise that the nation is at that all parts of things that FDA regulate are at	2 3 4	Q. Okay. Below that, the Subcommittee found substantial weaknesses across the agency, with the possible exception of some drug and medical device review functions funded by our industry fees. There are
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2 3 4 5 6	report examples rather than to Q. But A accept the broad premise that the nation is at that all parts of things that FDA regulate are at risk because some things need resources and other things are in pretty good shape.	2 3 4 5 6	Q. Okay. Below that, the Subcommittee found substantial weaknesses across the agency, with the possible exception of some drug and medical device review functions funded by our industry fees. There are several areas of greatest concern, however, which form the basis for this report's most significant findings.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	report examples rather than to Q. But A accept the broad premise that the nation is at that all parts of things that FDA regulate are at risk because some things need resources and other things are in pretty good shape. Q. Well, and that's what we're doing. We're going to look at the report. A. Okay. Q. But you agree with me that this report is not limited to food safety, is it? A. Oh, no, it's not. Q. And A. It's all FDA products. Q. It relates to drugs that are regulated by the FDA; correct? A. Yes. Q. And combination products that are regulated by the FDA; correct? A. Yes, that's correct. Q. Okay. Let's go over to or let's go down. It says, the Subcommittee concluded that science at the FDA	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Okay. Below that, the Subcommittee found substantial weaknesses across the agency, with the possible exception of some drug and medical device review functions funded by our industry fees. There are several areas of greatest concern, however, which form the basis for this report's most significant findings.  Did I read that correctly? </li> <li>A. Yes.</li> <li>Q. Okay. And below that, the FDA cannot fulfill its mission because its scientific base has eroded and its scientific organizational structure is weak.  Did I read that correctly? </li> <li>A. Yes, you did.</li> <li>Q. Going down into the box, it says, FDA's inability to keep up with scientific advances means that American lives are at risk.  Did I read that correctly? </li> <li>A. Yes, you did.</li> <li>Q. Going to the last sentence, likewise, evaluation methods have not kept pace with major advances in medical devices and uses of products in combination.  Did I read that correctly?</li> </ul>

	Page 278		Page 280
1	product, isn't it?	1	exponential rate and each generates novel scientific,
2	A. Yes, it's	2	analytic, laboratory, and/or information requirements.
3	MR. SCHMIDT: Asked and answered.	3	Did I read that correctly?
4	THE WITNESS: Yes, it's a medical, it's a	4	A. Yes, you read that.
5	medical device that's a drug delivery device so it's a	5	Q. Next sentence, the FDA cannot fulfill its
6	combination device and drug.	6	surveillance mission because of inadequate staff and IT
7	MR. JONES: Okay.	7	resources to implement cutting-edge approaches to
8	BY MR. JONES:	8	modeling, risk assessment, and data analysis.
9	Q. And then down below that it says, the world	9	Did I read that correctly?
10	looks to FDA as a leader to integrate emerging	10	A. Yes.
11	understanding of the biology of medicine, technology,	11	Q. The FDA lacks a coherent scientific structure
12	and computational mathematics in ways that will lead to	12	and vision as a result of weak organizational
13	successful disease therapies. Today, not only can the	13	infrastructure.
14	agency not lead, it cannot even keep up with the	14	Did I read that correctly?
15	advances in science.	15	A. You did.
16	Did I read that correctly?	16	Q. Last sentence, consistent and rigorous peer
17	A. You did.	17	reviews of programs and processes which are currently
18	I don't think I agree with that conclusion by	18	lacking are critical for wise utilization of resources
19	the Committee, but they're entitled to their opinion.	19	and for rebuilding the agency's ability to implement its
20	Q. Sure.	20	science-based regulatory responsibilities effectively.
21	Let's go to the next page. Due to constrained	21	Did I read that correctly?
22	resources and lack of adequate staff, FDA is engaged in	22	A. Yes, you did.
23	reactive regulatory priority setting or a fire-fighting	23	Q. Next, the FDA cannot fulfill its mission because
24	regulatory posture instead of pursuing a culture of	24	its scientific workforce does not have sufficient
25	proactive regulatory science.	25	capacity and capability.
1	Page 279	1	Page 281
1	Did I read that correctly?	1	Did I read that correctly?
2	A. Yes. And they point out they're talking about the Center for Food and the Center for Veterinary	2 3	A. Yes, you did.
3	Medicine.		Q. The Subcommittee found that, despite the
4 5		4 5	significant increase in workload during the past two
6	Q. Actually, what they say is that is particularly true for those two entities; correct?	6	decades, in 2007 the number of appropriate number of appropriated personnel remained essentially the same,
7	,	7	resulting in major gaps of scientific expertise in key
8	<ul><li>A. Yes.</li><li>Q. Okay. The FDA cannot adequately monitor the</li></ul>	8	
9	monitor development of food and medical products because	9	areas.  Did I read that correctly?
	it is unable to keep up with scientific advances.	10	•
10 11	Did I read that correctly?	11	A. Yes.  And the word "appropriated" is very important
12		12	because the size of the FDA by 2007 had nearly doubled,
13	A. Yes. And then they list the advances, and you can see that none of those really apply to Mirena.	13	its budget now has quadrupled because of the user fees.
14	Q. The next sentence then we'll see what the	14	So while the congressional appropriated, funded staff or
15	document says.	15	funds for staff remains constant and this is a
16	The Subcommittee identified the following	16	document prepared with Congress in mind the FDA has
	emerging eight emerging science and technologies that	17	actually been adding the staff in these areas based on
		1 - '	actuary occir adding the start in these areas based on
17		18	user fees
17 18	are most challenging the FDA: Systems biology,	18 19	user fees.  O. But as of 2007 this was the Committee's report:
17 18 19	are most challenging the FDA: Systems biology, including genomics and other -omics, wireless	19	Q. But as of 2007, this was the Committee's report;
17 18 19 20	are most challenging the FDA: Systems biology, including genomics and other -omics, wireless health-care devices, nanotechnology, medical imaging,	19 20	Q. But as of 2007, this was the Committee's report; correct?
17 18 19 20 21	are most challenging the FDA: Systems biology, including genomics and other -omics, wireless health-care devices, nanotechnology, medical imaging, robotics, cell- and tissue-based products, regenerative	19 20 21	<ul><li>Q. But as of 2007, this was the Committee's report; correct?</li><li>A. Well, it's about the appropriated rather than</li></ul>
17 18 19 20 21 22	are most challenging the FDA: Systems biology, including genomics and other -omics, wireless health-care devices, nanotechnology, medical imaging, robotics, cell- and tissue-based products, regenerative medicine, and combination products.	19 20 21 22	<ul> <li>Q. But as of 2007, this was the Committee's report; correct?</li> <li>A. Well, it's about the appropriated rather than it's not talking about the total FDA workforce, they're</li> </ul>
17 18 19 20 21 22 23	are most challenging the FDA: Systems biology, including genomics and other -omics, wireless health-care devices, nanotechnology, medical imaging, robotics, cell- and tissue-based products, regenerative medicine, and combination products.  Did I read that correctly?	19 20 21 22 23	<ul> <li>Q. But as of 2007, this was the Committee's report; correct?</li> <li>A. Well, it's about the appropriated rather than it's not talking about the total FDA workforce, they're talking about the congressional appropriation, which had</li> </ul>
17 18 19 20 21 22	are most challenging the FDA: Systems biology, including genomics and other -omics, wireless health-care devices, nanotechnology, medical imaging, robotics, cell- and tissue-based products, regenerative medicine, and combination products.	19 20 21 22	<ul> <li>Q. But as of 2007, this was the Committee's report; correct?</li> <li>A. Well, it's about the appropriated rather than it's not talking about the total FDA workforce, they're</li> </ul>

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Page 282
                                                                                                                       Page 284
        appropriated budget, had remained relatively flat, right
                                                                                    Going down, the FDA was extremely disturbed at
 1
                                                                       1
 2
        around a billion dollars, but by 2007, as I recall, it
                                                                       2
                                                                              the state of the FDA IT infrastructure.
 3
        was almost an additional billion dollars from user fees
                                                                       3
                                                                                   Did I read that correctly?
 4
                                                                        4
        that provided staff. In fact, more than half the staff
                                                                                    Yes, you did.
 5
        in the review divisions are funded by other sources than
                                                                       5
                                                                                    It also found that the FDA has insufficient
 6
        appropriated dollars.
                                                                       6
                                                                              access to data and cannot effectively regulate products
 7
                                                                       7
              Okay. More importantly, despite the critical
                                                                              based on new science due to lack of supportive IT
 8
        need for a highly trained workforce to fulfill its
                                                                       8
                                                                              infrastructure.
 9
        mission, the FDA faces substantial recruitment and
                                                                       9
                                                                                   Did I read that correctly?
10
                                                                      10
        retention challenges.
                                                                                    Yes, you did.
                                                                      11
11
             Did I read that correctly?
                                                                                    Okay. The IT situation at FDA is problematic,
12
              Yes. That's true of some parts of FDA.
                                                                      12
                                                                              at best, and, at worst, it is dangerous. Many of the
                                                                      13
13
        Q.
              But it doesn't say some parts of FDA in the
                                                                              FDA's systems reside on technology that has been in
14
                                                                      14
                                                                              service beyond the useful life cycle. Systems fail
        document, does it?
15
                                                                      15
                                                                              frequently, and even E-mail systems are unstable, most
              No. But I know -- I mean, I know what parts of
                                                                      16
16
        FDA that have problems and other areas -- you know, in
                                                                              recently, during an E-Coli food contamination
                                                                      17
17
        the device center the average tenure of my thousand
                                                                              investigation. More importantly, reports of product
                                                                      18
18
        staff was 17 years, so we had a 3 percent turnover rate.
                                                                              dangers are not rapidly compared and analyzed.
                                                                      19
19
             So the document is very -- speaks in the
                                                                                   Did I read that correctly?
20
        introduction in very broad terms. You actually have to
                                                                      20
                                                                                    Yes. This is a good description of the Food
                                                                              A.
21
        sort of drill down and see the specific areas they're
                                                                      21
                                                                              Center.
22
        talking about.
                                                                      22
                                                                                    It doesn't say the Food Center there, does it,
                                                                              Q.
                                                                      23
23
              There's insufficient investment in professional
                                                                              sir?
24
        development, which means that the workforce does not
                                                                      24
                                                                                    Well, the E-Coli --
                                                                      25
                                                                                   MR. SCHMIDT: Object to characterization.
25
        keep up with scientific advances.
                                                 Page 283
                                                                                                                       Page 285
 1
             Did I read that correctly?
                                                                       1
                                                                                   THE WITNESS: The E-Coli food contamination,
 2
                                                                       2
        A.
              You did.
                                                                              their one example that they give, is a Food Center
 3
        Q.
              Okay.
                                                                       3
 4
              And, again, it's very -- it varies from
                                                                       4
                                                                              BY MR. JONES:
                                                                       5
 5
        organizational unit to organizational unit.
                                                                                    But, sir, this paragraph does not refer to the
 6
              FDA's failure to retain and motivate its
                                                                       6
                                                                              Food Center, does it?
                                                                       7
 7
                                                                                   MR. SCHMIDT: Objection. Asked and answered,
        workforce puts FDA's mission at risk. Inadequately
 8
                                                                       8
        trained scientists are generally risk-averse and tend to
                                                                              argumentative.
                                                                       9
 9
        give no decision, a slow decision or, even worse, the
                                                                                   THE WITNESS: This is an overall statement, but
10
        wrong decision on regulatory approval or disapproval.
                                                                      10
                                                                              the examples that they're citing are -- throughout most
11
             During our encounters with staff and center
                                                                      11
                                                                              of this report are in the Center for Food and the Center
                                                                      12
12
        leadership, we were struck by the near unanimity at the
                                                                              for Veterinary Medicine, two of the centers that in 2007
13
                                                                      13
        shortage of science staff due to the lack of resources
                                                                              had no user fee resources compared to the Drug Center,
14
        to hire and the inability to recruit and retain needed
                                                                      14
                                                                              which by this time had more than doubled in size over
15
        expertise are serious, long-standing challenges.
                                                                      15
                                                                              the last decade.
16
        Internal expertise and experience to provide the science
                                                                      16
                                                                                   MR. JONES: Move to strike as nonresponsive.
17
        capability and capacity needed in highly specialized and
                                                                      17
                                                                                   MR. SCHMIDT: I'll object to that motion.
18
        fast-evolving areas is disturbingly limited.
                                                                              BY MR. JONES:
                                                                      18
19
                                                                      19
             The lack of a trained workforce means that the
                                                                                    Reading, critical data reside in large
20
                                                                      20
                                                                              warehouses sequestered in piles and piles of paper
        FDA is ineffective in responding to emerging fields that
                                                                      21
21
                                                                              documents. There's no backup of these records, which
        require individuals and work teams with
        multi-disciplinary skills built on very complex, highly
22
                                                                      22
                                                                              include valuable clinical trial data.
23
        specialized, and often esoteric bodies of knowledge.
                                                                      23
                                                                                   Did I read that correctly?
```

The FDA has inadequate extramural funding

24

25

A.

You did, yes.

24

25

Did I read that correctly?

Yes, you did.

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1	programs and collaborations to accelerate the	1	recruit the best leaders unless there is assurance that
2	development of critical health information exchanges in	2	adequate resources and staff will be available to
3	order to support clinical trials and pharmacovigilance	3	address the challenges.
4	activities.	4	Did I read that correctly?
5	Did I read that correctly?	5	A. Yes, you did.
6	A. Yes, you did.	6	And the Center for Drug position was filled
7	Q. And there are no pharmacovigilance activities	7	immediately. That person remains in that job and she's
8	associated with food, is there?	8	held that job since 1993, with a brief time when she
9	A. Well, they're not pharmacovigilance but there's	9	worked in the commissioner's office. So they predicted
10	food safety vigilance programs, yes.	10	that it would be a problem but, in fact, it was not.
11	Q. That's right. And that's in that paragraph that	11	Q. Not according to this report.
12	you were trying to say related to food safety; correct?	12	The magnitude of the resources
13	MR. SCHMIDT: Objection. Argumentative.	13	MR. SCHMIDT: Object to objection.
14	THE WITNESS: No. They give examples, they do	14	Just a second.
15	give examples from drugs, although not very many.	15	Objection. Argumentative.
16	MR. JONES: Okay.	16	BY MR. JONES:
17	BY MR. JONES: Okay.	17	
		18	•
18	Q. The next, 1.3, at the bottom, in contrast to		restore scientific capability and capacity is substantial.
19	previous reviews that warned crises would arise would	19	
20	arise if funding issues were not addressed, recent	20	Did I read that correctly?
21	events in our findings indicate that some of those		A. Yes.
22	crises are now realities and American lives are at risk.	22	Q. We recognize next page. We recognize that
23	Did I read that correctly?	23	adequate resources, human and financial, alone will not
24	A. Yes, you did.	24	be sufficient to repair the deteriorating state of
25	Q. Going to the next page, we found that FDA's	25	science at FDA, which is why we also recommend
		1	
	Page 287		Page 289
1	Page 287 resource shortfalls have resulted in a plethora of	1	Page 289 significant restructuring. But without a substantial
1 2		1 2	
	resource shortfalls have resulted in a plethora of		significant restructuring. But without a substantial
2	resource shortfalls have resulted in a plethora of inadequacies that threaten our society, including, but	2	significant restructuring. But without a substantial increase in resources, the agency is powerless to
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2 3 4	resource shortfalls have resulted in a plethora of inadequacies that threaten our society, including, but not limited to, inadequate inspections of manufacturers, a dearth of scientists who understand emerging new technologies, inability to speed the development of new	2 3 4	significant restructuring. But without a substantial increase in resources, the agency is powerless to improve its performance and will fall further behind and will be unable to meet either the mandates of Congress or the expectations of the American public.
2 3 4 5	resource shortfalls have resulted in a plethora of inadequacies that threaten our society, including, but not limited to, inadequate inspections of manufacturers, a dearth of scientists who understand emerging new	2 3 4 5	significant restructuring. But without a substantial increase in resources, the agency is powerless to improve its performance and will fall further behind and will be unable to meet either the mandates of Congress
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Page 290 Page 292 pieces of promotional material received for review, 290 products; two, modernize current regulatory pathways; 1 2 billion in pharmaceutical sales, brand prescription 2 and, three, develop new regulatory pathways where there 3 sales 221 billion, generic prescription sales 54 3 are currently none. Much of this research must be 4 4 billion, and over-the-counter sales 15 billion. undertaken by FDA because it is mission critical and 5 Did I read that correctly? 5 because it either cannot or will not be done by other 6 6 Yes. government agencies or industry. 7 7 Did I read that correctly? Okay. Let's go to Page 12. 8 8 Science forms the basis of all regulatory Yes, you did. 9 decisions. Those --9 Okay. Next page, second paragraph, in summary, 10 10 getting the science right is critical to FDA's ability MR. SCHMIDT: Where are you reading from? 11 to fulfill its mission. Decisions made in regulation 11 MR. JONES: The last sentence. 12 12 BY MR. JONES: development, premarket approvals, legal actions, and 13 related public health emergencies must be based on 13 Science forms the basis of all regulatory 14 14 decisions. Those that do not have adequate scientific understanding of contemporary and emerging science 15 15 within the context of the risk analysis paradigm. support are thus subject to delays or, worse, poor 16 Did I read that correctly? 16 decisions. Therefore, effective regulation requires 17 I lost where you were. Oh, I see where you are. 17 that the scientific competency within FDA matches or 18 Yeah, what you did is you just skipped over 18 exceeds an applicant's knowledge. 19 19 several paragraphs where they cited examples where FDA Did I read that correctly? 20 20 had actually done a good job. A. 21 21 Well, I'll let your counsel go into that because O. Next page, first paragraph, last sentence, the 22 bulk of the agency's activities involve reviewing new 22 I only have so much time with you. 23 23 drugs, biologics, medical devices, and additives. It is Next page, Center for -- the chart, Center for 24 24 clear from this list that the FDA must master science at Drug Evaluation and Research, CDER, premarket reviewed 25 25 and approved 101 prescription drugs and biologics, 14 the molecular and nanoscale and be able to detect, Page 291 Page 293 1 assess, and respond to the growing risks resulting from 1 OTC medications, 371 generic drugs, and conducted 648 2 2 globalization. clinical research inspections. 3 Did I read that correctly? 3 That was for 2000 -- fiscal year 2006; correct? 4 Yes. 4 A. Yes, that's right. 5 5 It's referring back to the description of Okay. And then post-market, fiscal year 2006, 6 genomics and nanotechnology, which in 2007 -- genomics 6 received 471,000 AERS reports. 7 7 has actually come -- has actually become important, Those are Adverse Event Reports; correct? 8 8 nanotechnology not so much. Yes, that's right. 9 Q. Okay. 9 Issued 16 public health advisories, reviewed 10 So they're anticipating these would be new areas 10 13,000 medication error reports, issued 70 drug 11 that the center would need to -- the centers would need 11 promotion violation letters and 530 advisory letters. 12 12 to deal with. Product quality, reviewed 184 pre-approval 13 Next paragraph towards the bottom, an even 13 inspections in support of 81 new drugs and 109 generic 14 broader range of activities related to surveillance of 14 applications, reviewed 1,329 cGMP inspections, received 15 adverse events is needed with marketed products: 15 2,670 Drug Quality Reports, and coordinated 361 drug 16 Surveillance and efficacy and safety assessments need 16 recalls. 17 support. These iterative and complex activities consist 17 Did I read that correctly? 18 18 of multiple sublevels of activity, such as science-based Yes. A. 19 interactions with third parties. Surveillance also 19 Those are activities that the field does, staff of about 1,500 people. Yeah, this is the work that was 20 20 requires an array of analytic activities as well as 21 extensive risk communications activities. 21 actually completed. Yes. 22 FDA must have the scientific staff and resources 22 Okay. Let's go down to -- let's go down to Page 23 23 to undertake the regulatory research that will provide a 20, second paragraph, middle of the paragraph, but 24 24 basis to, one, improve capacity for safety and efficacy despite this commendable commitment of staff, we found

that scientific capabilities and capacity at the FDA

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evaluations and monitoring of candidate and licensed

#### Page 294 Page 296 1 full sentence, we concur with the IOM's findings of overall are unevenly meeting current requirements, have 2 areas of serious deficiencies, and are not positioned to 2 scientific gaps in surveillance and biostatistics and 3 meet future needs. Most of these deficiencies are the 3 are in substantial agreement with the IOM 4 result of the dramatic increase in responsibilities of 4 recommendations directed to the agency and with FDA's 5 5 the FDA on the one hand and the lack of increasing proposed response. 6 6 personnel and scientific expertise to fulfill these Did I read that correctly? 7 7 responsibilities on the other. Yes. 8 Did I read that correctly? 8 This report is endorsing a request for agency to 9 9 fund a program known as the Sentinel, the Sentinel 10 10 Okay. Next page. System, which has been funded and is in place. 11 Let's go down to Page 26, second-to-last 11 Okay. Next paragraph, our findings and 12 paragraph, second-to-last sentence, the mission of 12 recommendations of the highest priority are summarized 13 getting safe and effective drugs to patients in a timely 13 below. Although there are many needs, e.g., external 14 manner is currently threatened by inadequate expertise 14 collaborations and IT support, in all centers and and capabilities. 15 15 programs, none of it -- none is as time sensitive and 16 16 Yes. critical as surveillance and risk management. 17 17 Q. Did I read that correctly? Did I read that correctly? 18 18 Yes, you did. A. 19 This is a paragraph describing the use of 19 The Subcommittee found that there's an urgent 20 genetics and genome-wide association, which isn't really 20 need for developing and evaluating new statistical 21 21 relevant to this product, but that's what this paragraph methods that are most appropriate for the data generated 2.2 is about. 22 by new areas of science. The Subcommittee notes that Isn't it also referring to combination products? 23 23 Q. new challenges are posed by the wealth of new types of 24 24 Not products like Mirena. There are data arising from animal studies, early clinical work, 25 25 combinations of companion diagnostics where genomics is and new approaches to safety surveillance. Page 297 Page 295 1 used to predict which cancers will respond to which 1 Did I read that correctly? 2 drugs. So that's largely what they're referring to 2 A. Yes. 3 3 Okay. Next paragraph down, second-to-the-last 4 Let's go down to the bottom of that page. The 4 sentence, statistical and epidemiological expertise will 5 area of drug safety now has several examples that 5 need to be brought to bear on the most efficient and 6 6 favorably affect the benefit-risk ratio. Safety productive analytical approaches to identifying and 7 7 pharmacogenetics using genetic technologies can and have evaluating signals arising from such databases. 8 defined diagnostic profiles that can predict which 8 Yes. 9 patients should not risk an adverse event before they 9 Q. Did I read that correctly? 10 take the drug. The Subcommittee stressed the importance 10 Yes. 11 of safety science. 11 They're talking about microarray and system 12 12 Did I read that correctly? biology and genetic information databases. 13 Yes. 13 Yeah. I don't see that. It's actually --14 They're giving an example of where the agency 14 Well, it's at the top. 15 actually did this and resulted in a much safer use of a 15 It's talking about the Center for Medicare and 16 drug for HIV infection. There's another --16 Medicaid and Veterans Administration databases, isn't 17 Page 30, Section 3.1.3, there is insufficient 17 18 18 capacity in modeling, risk assessment, and analysis. Well, that relates to the Sentinel initiative. 19 Recommendation: The FDA should immediately implement 19 Yes, that's -- but it begins with methods to evaluate 20 20 the IOM recommendations for improving drug safety as and appropriate data from microarray and systems biology 21 well as those made by the Subcommittee working group on 21 experiments but then it does talk about the availability 22 22 bio -- on surveillance/biostatistics. of -- this is the time period when we're starting to see

75 (Pages 294 to 297)

electronic medical records and starting to utilize

those, so this document was to help justify a request

for FDA to set up a 100-million-patient database that

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A.

Did I read that correctly?

Okay. Let's go to the next page, Page 31, first

You did.

Page 298 Page 300 1 and possibly foods as well as human drugs and biologics. 1 FDA could do -- could access to actually use to help 2 2 evaluate safety. This was at a minimum include providing access to 3 The Subcommittee found that the FDA lacked 3 existing databases with relevant medical information to 4 4 sufficient expertise in quantitative methods, such as FDA reviewers. It should increase the level of staff 5 5 expertise in scientifically based risk communication statistics and biomathematics, to effectively assess 6 6 products and guide sponsors to design valid and strategies and increase the involvement of external 7 7 informative studies. stakeholders in the evaluation of FDA approaches and 8 8 Did I read that correctly? processes. The Subcommittee also urges the FDA to 9 You did. 9 develop enhanced reviewer tools, such as data standards, 10 10 I think it's referring back to the systems electronic submissions, data mining and analysis as well 11 as tools for electronic facilities, establishment, and 11 12 12 Let's go to the next page. The Subcommittee product listing and tracking. 13 13 found that the FDA also has a lack of expertise in Did I read that correctly? 14 risk/benefit assessment. The Subcommittee notes that 14 Yes. A. 15 15 And a lot of that has been done and even some of another important area for quantitative methods 16 16 development is risk/benefit assessment. Such the methodologic work done by FDA statisticians on data 17 mining are techniques that weren't used by either Dr. 17 assessments have traditionally been made informally but 18 Ross or Dr. Etminan but which I've cited in my report. 18 as the public's concern about the value and safety of 19 MR. JONES: Okay. Strike as nonresponsive. 19 new drugs continues to grow and as the complexity and MR. SCHMIDT: Object to that motion. 20 volume of data informative about potential benefits and 20 21 21 BY MR. JONES: risks increases, more formal methods will be important 22 for optimal decision-making. 22 Page 34. Actually, let's go down to Page 42, 23 23 Finding 3.2.2, Finding: The FDA has an inadequate and Did I read that correctly? 24 24 Yes, you did. ineffective program for scientist performance. 25 25 Okay. Going down, skipping that next Recommendation: The FDA should enhance the program to Page 299 Page 301 1 recommendation in the interest of time, the Subcommittee 1 monitor performance metrics and put the appropriate IT 2 2 recommends that the FDA strengthen the information tools infrastructure in place to track the evolution of those 3 for supporting effective risk management. This would 3 4 provide the FDA with improved capacity to identify 4 Did I read that correctly? 5 5 safety risks in advance and to conduct effective risk 6 6 management, analysis, and communications. Key areas of Okay. Going down, the Subcommittee found that 7 7 focus would include providing improved database access there needs to be more meaningful measures of scientific 8 8 and analysis and support of safety assessment, including performance on the part of staff. 9 access to health and public health databases for adverse 9 Then going to the last sentence, if performance 10 event identification and the surveillance for risk 10 is based on a noisy proxy, such as time to review a new 11 identification and evaluation. It would also include 11 product application, the pressure to perform can lead to 12 12 the development of advanced data mining and analytical unintended consequences, such as worse drug safety. 13 methodologies for signal detection in large health care 13 Did I read that correctly? 14 14 databases. Yes. A. 15 Did I read that correctly? 15 That isn't what has happened but that -- you did 16 16 A. Yes. read that. 17 MR. SCHMIDT: Objection. You misread one word. 17 Okay. Finding 3.2.3. That's okay. We'll skip 18 MR. JONES: That's okay. that in the interest of time. 18 19 THE WITNESS: But that does again refer to the 19 MR. SCHMIDT: Because I think you are down to a 20 20 FDA proposal to fund the Sentinel initiative. few minutes. Ten minutes. 21 MR. JONES: Okay. 21 MR. JONES: Ten? Yeah, that's what I was 22 BY MR. JONES: 22 thinking. 23 23 Let's go down to the bottom of Page 32. The FDA BY MR. JONES: 24 24

76 (Pages 298 to 301)

Go to Page 47, Finding 3.3.2. Finding: The FDA

lacks the information science capability and information

25

should also expand the drug safety framework to apply

active surveillance to medical devices, animal drugs,

25

Page 302 Page 304 infrastructure to fulfill its regulatory mandate. BY MR. JONES: 1 1 2 Going down, the Subcommittee found that the 2 The Subcommittee found that in addition to 3 FDA's current critical information supply chains are, at 3 deficiencies in its technology and communications 4 4 best, inefficient, cost intensive and prone to promote platform, the FDA lacks many basic tools to support 5 5 errors in regulatory science due to the inability to science and regulatory services. Specifically, the 6 6 access, integrate, and analyze data. Incredibly, agency lacks the ability to adequately store data from 7 7 critical data resides in large warehouses sequestered in clinical trials or adverse event reporting. The vast 8 piles and piles of paper documents. 8 majority of these data are still paper based and sit in 9 Did I read that correctly? 9 large warehouses, where it is not possible to 10 10 efficiently access the data. The agency lacks adequate 11 11 I mean, it reflects the situation a decade ago tools to search data, model the data, and analyze the 12 12 but -- and not uniformly for FDA, but that certainly was data. FDA staff repeatedly emphasized the incredible 13 13 true in 2007 for some parts of FDA. missed opportunities that exist due to the inability to 14 14 MR. JONES: Move to strike as nonresponsive. conduct safety and efficacy studies as a consequence of 15 15 MR. SCHMIDT: Object to the motion. these deficiencies in storage, search, and core 16 16 BY MR. JONES: scientific tools. 17 17 There are no effective mechanisms to protect Did I read that correctly? 18 18 these paper records, which include very valuable You did. A. 19 I don't think the paragraph actually accurately 19 clinical trial data. Furthermore, processes for data 20 and information exchange, both internally as well as 20 describes the adverse reporting system, but you did read 21 21 among external partners, lack clear business processes, that correctly. 22 information technology standards, sufficient workforce 22 Okay. When did you leave FDA? Q. 23 23 expertise, a robust technology platform, such that FDA In 2004. A. 24 24 cannot credibly process, manage, protect, access, Okay. So that was three years before this 25 25 analyze, and leverage the vast amounts of data that it report? Page 303 Page 305 1 encounters. Consequently, the FDA's ability to support 1 Yes. And some of the things that they're 2 industry innovation and regulatory activities is 2 describing in 2007 weren't accurate in 2004. 3 compromised. 3 Q. Okay. So you disagree with the Committee. 4 Did I read that correctly? 4 A. I'm --5 MR. SCHMIDT: Object to characterization. 5 You did. 6 6 THE WITNESS: Yes, I disagree with some of their Let's go to Page 48, second-to-last 7 7 recommendation. The Subcommittee recommends that the conclusions and I think that some of their 8 8 characterizations are overbroad and superficial. FDA develop the capacity to do advanced data mining and 9 9 use analytical methodologies and tool development for This is a document that was prepared to support 10 large databases as well as the development of new 10 requests for funds in some of these areas and it was 11 statistical methods and trial designs. This includes 11 successful at doing this. 12 12 But, for example, with the adverse event adverse event and signal detection, rapid portable 13 13 diagnostic analytic testing, the development of reporting, I mean, you know since you've taken a look at 14 AERS downloadable databases that those databases are 14 risk-based models for selection of manufacturing 15 inspections, risk communications science, and enhanced 15 updated quarterly, there's usually a few-month lag, and 16 reviewer tools, such as data standards, electronic 16 they've been provided and they were provided 17 continuously all throughout this period and it existed 17 submissions, data mining analysis, and electronic 18 in FDA databases, so they're -- this is a time when FDA 18 product listing and tracking. 19 is transitioning from paper to electronic records, and I 19 Did I read that correctly? 20 think this report strongly supports that activity, which 20 Yes. These are all things which are -- have 21 21 been done since this report has been written. is now largely complete. 22 22 VIDEO OPERATOR: Source. Top right. Hit it Let's go to Page 50, middle of the page. The 23 twice, I think. One more time. Make sure the light is 23 Subcommittee found that in addition to deficiencies --24 on the right. 24 MR. SCHMIDT: Let him catch up. 25 MR. JONES: Yeah, here it is. Okay. 25 THE WITNESS: Okay.

1 BY MR. JONES: 2 Q. Dr. Frigal, do you remember participating in a discussion at — with — do you know what Eucomed is? 3 discussion at — with — do you know what Eucomed is? 4 A. Yes. It's the medical device trade association in Europe. 5 Q. Okay. And do you remember giving an interview of during your — one of your interactions with that organization? 9 A. Yes, I don't remember the content, but I think you're going to help me remember what it was about. 10 Q. Okay. 11 MR. SCHMIDT: Can you just tell me what source you're about to play? Is this on the Internet? What is this? 12 MR. JONES: It's something that we got off of You'rube. 13 MR. JONES: It's something that we got off of You'rube. 14 this? 15 MR. JONES: It's something that we got off of You'rube. 16 MR. JONES: It's something that we got off of From our perspective, the deposition is done in few earn just do it on the stenography record. 16 MR. JONES: New for file record. 17 THE WITNESS: Wol., It's got a lecture I gave in 22 MR. JONES: We for the record. 18 MR. JONES: We for the record. 19 MR. SCHMIDT: Can you just for the record cite the URL? I think thar's what you were about to say. 20 MR. SCHMIDT: While he's doing that, do you mind just limg us what the URL is? 21 MR. JONES: We don't get the sound through here. 22 MR. JONES: The sound through here. 23 MR. JONES: The sound through here. 24 MR. JONES: You don't get the sound through the HDM!? 25 MR. SCHMIDT: All right. Over my objection. 26 MR. JONES: You don't get the sound through the Large may be a second for the record. 27 MR. JONES: You don't get the sound through the Large may be a second for the record. 28 MR. JONES: You don't get the sound through the Large may be a second for the record. 29 MR. SCHMIDT: All right. Over my objection. 29 MR. SCHMIDT: All right. Over my objection. 20 MR. SCHMIDT: All right. Over my objection. 20 MR. SCHMIDT: All right. Over my objection. 21 MR. SCHMIDT: All right. Over my objection. 22 MR. SCHMIDT: All right. Over my objection. 23 MR. SCHMIDT: All right. Over my ob		Page 306		Page 308
discussion at — with — do you know what Eucomed is?  4 A. Yes. If she medical device trade association in Furope.  9 Q. Okay. And do you remember giving an interview during your — one of your interactions with that organization?  9 A. Yes. Idon't remember the content, but I think you're going to help me remember what it was about.  10 Q. Okay.  11 Q. Okay.  12 MR. SCHMIDT: Can you just tell me what source you was about to play? Is this on the Internet? What is this?  13 MR. JONES: It's something that we got off of You'lube.  14 this?  15 MR. JONES: It's something that we got off of You'lube.  16 You'lube.  17 THE WITNESS: Oh.  18 MR. JONES: It's something that we got off of You'lube.  19 THE WITNESS: Well, I've got a lecture I gave in 22 THE WITNESS: Well, I've got a lecture I gave in 3 Just telling us what the URL is?  16 MR. JONES: I've got that one too.  17 MR. SCHMIDT: Can you just for the record cite the URL? I linkil that's what you were about to say.  18 MR. JONES: The sound is not working.  19 MR. SCHMIDT: Can you just for the record cite the URL? I linkil that's what you were about to say.  19 MR. SCHMIDT: Can you just for the record cite the URL? I linkil that's what you were about to say.  10 MR. SCHMIDT: Can you just for the record cite the URL? I linkil that's what you were about to say.  11 MR. SCHMIDT: Objection. Asked and answered.  12 MR. JONES: The sound is not working.  13 MR. JONES: The sound is not working.  14 MR. SCHMIDT: While he's doing that, do you mind just telling us what the URL is?  15 MR. JONES: The sound is not working.  16 MR. JONES: The sound is not working.  17 MR. JONES: So thore are areas where PDA resources and, in fact, I have when I was center director for Devices, I was an advocate fir user fees to increase the resources of the record.  16 MR. JONES: Yeah, let's go off the record.  17 MR. SCHMIDT: Mr. Yebpe of the record.  18 MR. JONES: Yeah, let's go off the record.  19 MR. SCHMIDT: Mr. Yebpe of the record.  20 MR. JONES: Yeah, let's go off the record.  21 MR. JONES: Ye	1	BY MR. JONES:	1	MR. JONES: Yeah.
discussion at — with — do you know what Dacomed is?  4	2	Q. Dr. Feigal, do you remember participating in a	2	MR. SCHMIDT: I'm going to object to going off
4 There's five minutes left.  5 in Europe.  6 Q. Okay, And do you remember giving an interview during your – one of your interactions with that organization?  7 A. Yes. I don't remember the content, but I think you're going to help me remember what it was about.  10 Q. Okay.  11 Q. Okay.  12 MR. SCHMIDT: Can you just tell me what source you was about to play? Is this on the Internet? What is this?  13 MR. JONES: It's something that we got off of you'rube.  14 THE WITNESS: Oh.  15 MR. JONES: It's something that we got off of famous.  16 You'rube.  17 THE WITNESS: Well, I've got a lecture I gave in San Diego that's on You'Tube that –  19 famous.  20 THE WITNESS: Well, I've got a lecture I gave in San Diego that's on You'Tube that –  21 conclude I needed a haircut before I gave that lecture.  22 MR. JONES: I've got that one too.  23 THE WITNESS: Yeah. Every time I see that, I conclude I needed a haircut before I gave that lecture.  24 MR. JONES: Chay. Lef's watch this.  25 MR. JONES: Chay Lef's watch this.  26 MR. JONES: Chay Lef's watch this.  27 MR. JONES: Sound is not working.  4 MR. JONES: Chay Lef's watch this.  4 MR. JONES: Sound is not working.  4 MR. JONES: Christina, can you pull it?  5 MR. JONES: Sound is not working.  4 MR. JONES: Sound is not working.  4 MR. JONES: Sound is not working.  5 MR. JONES: Yeah, Lif'if's going to HDMI, you be don't get the sound through the record.  6 MR. JONES: You have you want to go off the record.  7 MR. JONES: You have you want to go off the record.  8 MR. JONES: Yeah, lef's go off the record.  9 MR. JONES: You have you mand to go off the record.  9 MR. JONES: You have you want to go off the record.  10 MR. JONES: You have you mand to go off the record.  11 We don't get the sound through the record.  12 MR. JONES: Yeah, lef's go off the record.  13 MR. JONES: Yeah, lef's go off the record.  14 MR. JONES: Yeah, lef's go off the record.  15 MR. JONES: Yeah, lef's go off the record.  16 MR. JONES: Yeah, lef's go off the record.  17 MR. JONES: Yeah, lef's go off the record.	3		3	
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9 A. Yes. I don't remember the content, but I think you're going to help me remember what it was about. 10 We're going off the record. The time is 6:01 p.m. 12 MR. SCHMIDT: Can you just tell me what source you're about to play? Is this on the Internet? What is this? 14 this? 15 MR. JONES: It's something that we got off of You'lube. 16 You'lube. 17 THE WITNESS: Oh. 18 MR. JONES: Oh. 19 Intimus. 18 MR. JONES: Unit of the record. 18 MR. JONES: We're off the record. 19 Intimus. 19 VIDEO OPERATOR: Okay? Okay. 19 We're going off the record. 19 record for five seconds so I can say on the record - we can just do it on the stenography record. 19 From our perspective, the deposition is done in five minutes. 19 VIDEO APERATOR: We are back on the record. 19 WiDEO OPERATOR: We are back on the record. 19 WiDEO OPERATOR: We are back on the record. 19 WiDEO OPERATOR: We are back on the record. 19 WiDEO OPERATOR: We are back on the record. 19 WiDEO OPERATOR: We are about to say. 10 MR. SCHMIDT: Objection. Asked and answered. 19 MR. SCHMIDT: While he's doing that, do you mind just telling us what the URL is? 10 MR. SCHMIDT: While he's doing that, do you mind just telling us what the URL is? 10 MR. SCHMIDT: While he's doing that, do you mind just telling us what the URL is? 10 MR. SCHMIDT: While he's doing that, do you mind just telling us what the URL is? 10 MR. SCHMIDT: While he's doing that, do you mind just telling us what the URL is? 10 MR. SCHMIDT: While he's because - 10 MR. SCH	8		8	
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Page 310
                                                                                                                      Page 312
 1
        BY MR. JONES:
                                                                              STATE OF CALIFORNIA
                                                                       1
 2
             Is that you in the video?
                                                                       2
                                                                             COUNTY OF LOS ANGELES
 3
                                                                       3
                                                                                   I, ROSEMARY LOCKLEAR, a Certified Shorthand
                                                                       4
 4
        Q.
             Do you remember saying that in that interview?
                                                                              Reporter of the State of California, duly authorized to
 5
             Yes. It's similar to something I said many
                                                                       5
                                                                              administer oaths pursuant to Section 2025 of the
                                                                       6
 6
        times. We had a program in the Center for Devices where
                                                                              California Code of Civil Procedure, do hereby certify
 7
                                                                       7
        companies could opt to use third-party reviews and the
                                                                       8
 8
        program was underutilized. I was also an advocate for
                                                                                   DAVID WILLIAM FEIGAL, JR., M.D., M.P.H., the
 9
        using third-party inspectors, the way that the Europeans
                                                                       9
                                                                              witness in the foregoing deposition, was by me duly
10
        do. So that's what this interview was about.
                                                                     10
                                                                              sworn to testify the truth, the whole truth and nothing
11
                                                                     11
                                                                              but the truth in the within-entitled cause; that said
                                                                     12
12
                                                                              testimony of said witness was reported by me, a
             FDA doesn't have very many staff located outside
        the United States and so it's difficult for them to do
                                                                     13
13
                                                                              disinterested person, and was thereafter transcribed
                                                                     14
14
        the biannual manufacturing inspections outside the
                                                                              under my direction into typewriting and is a true and
15
                                                                     15
                                                                              correct transcription of said proceedings.
                                                                     16
16
            MR. JONES: I have no further questions for you,
                                                                                   I further certify that I am not of counsel or
                                                                     17
17
        Dr. Feigal.
                                                                              attorney for either or any of the parties in the
                                                                     18
18
            MR. SCHMIDT: Okay. Do you mind just reading
                                                                              foregoing deposition and caption named, nor in any
19
                                                                     19
        into the record the URL?
                                                                              way interested in the outcome of the cause named in
2.0
            MS. NATALE: I don't have it.
                                                                     20
                                                                              said deposition dated the
                                                                                                               day of
21
            MR. JONES: Oh, here. I'll get it for you,
                                                                     21
                                                                     22
2.2
        Paul.
            MR. SCHMIDT: Thank you. I appreciate it.
                                                                     23
2.3
2.4
            MR. JONES: The URL is HTTPS, hyphen, forward
                                                                     2.4
25
        slash, forward slash, WWW dot YouTube dot-com, forward
                                                                     25
                                                                              ROSEMARY LOCKLEAR, RPR, CRR, CSR 13969
                                                 Page 311
                                                                                                                      Page 313
 1
        slash, watch, question mark, V equals X, as in Xerox, L
                                                                       1
                                                                                         INSTRUCTIONS TO WITNESS
 2
                                                                       2
        as in Larry, F as in Frank, 4, lower case A, H as in
 3
        Harry, D as in David, L as in Larry, lower case TZY.
                                                                       3
 4
             And just to clarify --
                                                                       4
                                                                                    Please read your deposition over carefully and
                                                                       5
 5
             THE WITNESS: Of course.
                                                                              make any necessary corrections. You should state the
 6
            MR. JONES: -- so everybody has it, the V is
                                                                       6
                                                                              reason in the appropriate space on the Errata Sheet for
                                                                       7
 7
        lower case V equals upper case XLF4, lower case A, upper
                                                                              any corrections that are made.
 8
                                                                       8
        case HDL, lower case TZ, upper case Y.
                                                                                    After doing so, please sign the Errata Sheet
 9
             They don't make it easy.
                                                                       9
                                                                              and date it.
10
            MR. SCHMIDT: Here it is. Thank you.
                                                                     10
                                                                                    You are signing same subject to the changes
                                                                      11
11
             THE WITNESS: You got it, huh? I'm impressed at
                                                                              you have noted on the Errata Sheet, which will be
                                                                      12
                                                                              attached to your deposition.
12
        your typing skills.
                                                                     13
13
             MR. SCHMIDT: That concludes the deposition.
                                                                                    It is imperative that you return the original
                                                                     14
                                                                              Errata Sheet to the deposing attorney within thirty (30)
14
             MR. JONES: All right.
                                                                              days of receipt of the deposition transcript by you. If
15
             Thank you, Dr. Feigal.
                                                                      15
16
             THE WITNESS: You're welcome.
                                                                      16
                                                                              you fail to do so, the deposition transcript may be
                                                                      17
                                                                              deemed to be accurate and may be used in court.
17
             VIDEO OPERATOR: This concludes the deposition
        of David Feigal, consisting of four DVDs.
                                                                      18
18
                                                                      19
19
             The time is 6:08 p.m.
                                                                      20
20
             We're off the record.
                                                                      21
21
             (Whereupon the deposition concluded at 6:08
22
                                                                      22
        p.m.)
                                                                      23
23
                    TESTIMONY CLOSED
                                                                      24
24
                                                                      25
25
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## Case 1:17-cv-02698-PAE-JLC Document 49-6 Filed 03/10/17 Page 81 of 81

David William Feigal, Jr., M.D., M.P.H.

	Page 314			Page 316
1	ERRATA	1	LAWYER'S NOTES	
2		2	PAGE LINE	
3 4	PAGE LINE CHANGE	3 4	- <del></del>	<del> </del>
5	TAGE LINE CHANGE	5		
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22	REASON:	22		
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24		24	<del></del>	
25		25	<del></del>	<del></del>
	Page 315			
1	ACKNOWLEDGEMENT OF DEPONENT			
2	ACKNOWLEDGEMENT OF BEFOREM			
3				
4 5	I,, do hereby certify that I have read the foregoing pages, and that the same			
6	is a correct transcription of the answers given by me to			
7	the questions therein propounded, except for the			
8 9	corrections or changes in form or substance, if any, noted in the attached Errata Sheet.			
10				
11 12				
13				
14	DAVID WILLIAM FEIGAL, JR., M.D., M.P.H. DATE			
15 16	Subscribed and sworn			
10	to before me this			
17	day of			
18	My commission expires:			
19				
20	Notary Public			
21	riolary rubiic			
22				
23 24				
25				

80 (Pages 314 to 316)